

# Weekly Aviation Headline News

## WORLD NEWS

### Siemens modernises baggage screening at Dublin Airport

Siemens Logistics has been successful in their bid to integrate a new hold baggage screening system (HBS) at Dublin Airport, Terminal 2. The contract includes replacing the existing HBS and installing an additional line to further increase capacity. A special challenge presented by this project is to conduct the work, without causing any restrictions to the normal flight plan or passenger operations. The implementation of new baggage screening units is based on increased international safety regulations.

### Jazeera Airways adds more fare choices for 2020

Jazeera Airways has unveiled a series of new services and fare categories applicable from 2020 that aim to give passengers more choices to customise their itinerary as per their needs and budget when travelling to the Middle East and Asia. Chief Executive Officer, Rohit Ramachandran, said: "Our new fare categories and services have been designed to make their journey with Jazeera Airways all the more personalised and enjoyable. We will be the first airline in the Middle East to offer a priority service they can pre-purchase online."

### SITA and CHAMP Cargosystems join Global Alliance

SITA and its joint venture CHAMP Cargosystems announced plans to support international development as they join the Global Alliance for Trade Facilitation as official business partners. The Alliance is a not-for-profit collaboration of governments, international organisations and businesses working to make trade simpler, faster and more cost-effective.



Heathrow expansion masterplan illustration.

Photo:  
Heathrow  
Airport

## Amadeus and Air India sign new contract

### Agreement to enhance distribution capabilities

Amadeus has announced a new distribution agreement with Air India to open new content to both domestic and international travel sellers.

The travel trade in India can now access the airline's full international content, while international sellers will have access to the full range of Air India's content, both domestic and international. This will open new wave of growth potential for the airline as well as entirely new options for Indian and international travellers.

The new agreement represents a significant stepping-stone for an extended, long-term relationship between both companies.

**"We look forward to working closer with Amadeus to support agencies and travellers in the future."**

*Meenakshi Mallik, Commercial Director, Air India*

The dynamic Indian travel industry has been going through a unique transformation over the last few years. Travel and spending power are both increasing, as are the expectations of Indian

travellers. For airlines to ride this wave of growth and reach their potential, the right partnerships with leading global companies will be essential to success.

Meenakshi Mallik, Commercial Director, Air India said: "We are pleased to renew our relationship with Amadeus

to support our growth strategy globally and hope that this is the first step in our new journey together. We look forward to working closer with Amadeus to

*Continued on page 3*

# MRO

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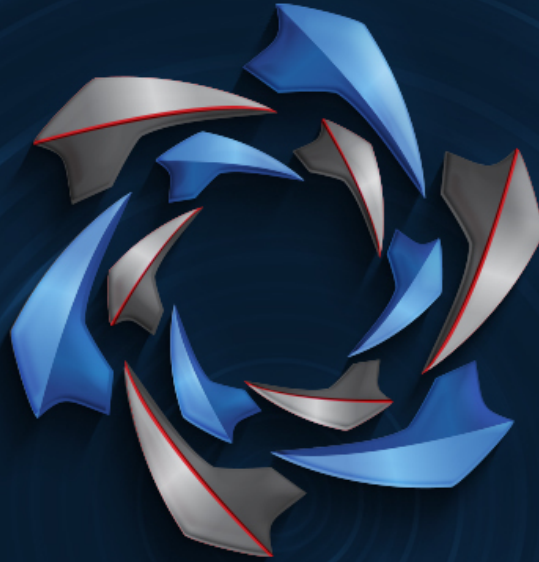
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support agencies and travellers in the future.”

Cyril Tetaz, Executive Vice President, Airlines, Asia Pacific, Amadeus said: “We are glad to once again work with Air India and play a positive role in the airline’s growth strategy. Amadeus’ simple, open and agile system will allow Air India to innovate, experiment and collaborate to create new products which will add value to customers and create upsell or cross-sell opportunities.”

Amadeus has signed several important strategic deals in India in

recent months, with Air India added to a list of airlines that include Spice Jet and Vistara. Both Indigo and Go Air also have their IT agreements with Navitaire, an Amadeus company. In addition, Amadeus says it has strategic partnerships with some of the largest travel sellers in India, such as MakeMyTrip, Goibibo, Yatra, and PayTM; and some of the major hotel groups and aggregators in India such as Oberoi, Taj, ITC Hotels and The Leela Palaces. From an airport IT perspective, Indira Gandhi International Airport and Rajiv Gandhi International Airport also use Amadeus’ airport technology.

## AIRCRAFT & ENGINE NEWS

### Boeing contradicts original selling point of 737 MAX with new position on pilot training

Boeing has announced a change in its previous position regarding the required training of pilots for the operation of the 737 MAX by recommending all future pilots undergo simulator training as opposed to the previous exclusively computer-based training. Boeing had last year suggested that such training would not be required for the operation of its latest version of 737 narrowbody aircraft, a selling point used to market the aircraft against Airbus, Boeing’s European rival. In the case that U.S. and international regulatory-bodies green-light Boeing’s most recent proposal, which isn’t projected to be the case before February or March, the result would be an even further delay in Airline’s preparation of crews to fly the 737 MAX. As it stands simulators for the 737 MAX are sparsely available (CAE having delivered 23 MAX full-flight simulators as of December), with American Airlines Group and United Airlines each having one such simulator. The FAA has responded to Boeings recommendation by stating it would consider the suggested change in operator training during training evaluations of U.S. and international flight crews. Later this week Boeing will meet with aviation safety regulators from both Europe and the U.S. in an effort to complete a 737 MAX software documentation audit, which would mark an important milestone on the road to returning the aircraft to service.

### AviaAM Financial Leasing China acquires Boeing 737-800 with lease attached



Donghai Airlines

Photo: AviaAM Leasing

AviaAM Leasing, a global aviation holding company engaged in tailored aircraft leasing and trading services, has announced that its joint venture with the Henan Civil Aviation Development and Investment Company (HNCA) – AviaAM Financial Leasing China – has acquired one more Boeing 737-800. The aircraft joined the fleet with a lease agreement attached to the current Chinese lessee – Donghai Airlines, which will operate the aircraft under a nine-year agreement.

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## AIRCRAFT & ENGINE NEWS

### AerCap leased, purchased and sold 353 aircraft in 2019

AerCap has announced its major business transactions during the full year and fourth quarter of 2019: Full-year 2019 transactions included signed lease agreements for 192 aircraft and the purchase of 65 aircraft. AerCap executed sale transactions for 96 aircraft and signed financing transactions in the amount of approximately US\$9.5 billion for the year. During the fourth quarter, AerCap signed lease agreements for 29 aircraft, including seven wide-body aircraft and 22 narrow-body aircraft. The company purchased 21 aircraft, including 14 Airbus A320neo Family aircraft, one Airbus A350, two Boeing 787-9s and four Embraer E2s. AerCap executed sale transactions for 32 aircraft, including eight Airbus A320 Family aircraft, five Airbus A330s, two Airbus A340s, seven Boeing 737NGs, one Boeing 737 Classic, one Boeing 757, two Boeing 767-300ERs, one Boeing 777-300 and one Boeing 787-8 from its owned portfolio, and two Airbus A320 Family aircraft and two Airbus A330s from its managed portfolio. AerCap continues to manage six aircraft that were sold from its owned portfolio during the quarter and signed financing transactions for US\$5.1 billion.

### Spirit Airlines and Airbus finalize order for 100 A320neo Family aircraft



Spirit Airlines' A320neo take off

Photo: Airbus

U.S.-based Spirit Airlines has finalized a purchase agreement with Airbus for 100 A320neo Family aircraft. In October, the two parties had signed and announced a memorandum of understanding (MoU) for the purchase of up to 100 of the aircraft – a mix of A319neos, A320neos, and A321neos – to meet the airline's future fleet requirements. Spirit Airlines is based in South Florida and is the fastest-growing airline in the United States, offering flights throughout the U.S., Latin America and the Caribbean. The airline will announce an engine selection at a later date.



Embraer E190 HOP!

Photo: AirTeamImages

### Air France Hop takes delivery of one new Embraer E190 from NAC

Nordic Aviation Capital (NAC) has delivered one new Embraer E190, MSN 19000771, to Air France Hop on lease. This is the sixth aircraft to deliver as part of a seven-aircraft lease agreement. The airline, headquartered at Nantes Atlantique Airport, Bouguenais, France, operates flights to 50 destinations throughout France and Europe. NAC, is a regional aircraft lessor serving 76 airline customers in 50 countries. The company provides aircraft to well-established carriers such as British Airways, Air Canada, LOT, Azul, Lufthansa, Garuda, Aeroméxico and airBaltic as well as major regional carriers including Air Nostrum and Widerøe. NAC's current fleet of almost 500 aircraft includes ATR 42, ATR 72, Bombardier Dash 8, CRJ900/1000, Airbus A220 and Embraer E-Jet family aircraft.

### Willis Lease Finance orders up to sixty CFM LEAP engines

Willis Lease Finance Corporation has placed an order with CFM International for up to sixty LEAP engines with a value of nearly US\$900 million at list prices. This includes both firm and option orders for LEAP-1A and LEAP-1B engines, which the Company will use to support its customers operating Airbus A320neo and Boeing 737 MAX aircraft. These newly ordered engines will begin delivering in 2020 and add to the eight LEAP engines the Company currently owns. "As we have said before, our customers continue to express their preference to borrow spare engines when they're needed, rather than owning a large number of engines that will generally be underutilized," said Charles F. Willis, Chairman and CEO. "This preference has supported utilization of the LEAP engines we already own, and we believe our ConstantAccess program, among others, will continue to drive efficiency, and thus value, for our customers."



LEAP engine mounted on a flying testbed

Photo: Safran





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## BOC Aviation orders 20 Airbus A320neo aircraft

BOC Aviation has ordered 20 new Airbus A320neo aircraft from Airbus. A minimum of ten and up to 12 of these A320neo aircraft have been committed for lease to Avianca S.A. (Avianca) based in Bogota, Colombia. "We are delighted to establish a relationship with BOC Aviation, who are one of the world's foremost lessors, and we sincerely value the confidence they are showing in Avianca and the support to our long-term plan," said Adrian Neuhauser, CFO of Avianca.



BOC Aviation has ordered 20 new A320neo aircraft

Photo: Airbus

## Dumont Aviation Group completes Falcon 2000 purchase program



Falcon 2000

Photo: Dumont Aviation Group

Dumont Aviation Group has announced that, with its most recent purchase on December 23, 2019, it has completed its program of purchasing 27 Falcon 2000 aircraft from a large fractional operator. The Falcon 2000 program started in 2018 when Dumont purchased its first Falcon 2000 and continued through 2019 and concluded with its Dec. 23 purchase. Dumont Aviation Group is a proven leader in executive and commercial jet aviation. Its team specializes in aircraft charter, management, sales, maintenance,

paint, interior and parts sales from its established FAA Part 135 and Part 145 operations in Allentown, Pennsylvania; New Castle, Delaware; Bloomington, Illinois; and Fort Worth, Texas, and from its sales offices in New Castle; Orlando, Florida; and Nashville, Tennessee. Dumont JETS is Dumont's premier aircraft sales, management and charter division serving clients throughout the country. Dumont MRO, the maintenance repair and overhaul division, offers high-quality workmanship and unparalleled customer service from its four bases of operations. Dumont PARTS, the aircraft parts division, provides customers with quick service and affordable and reliable aircraft parts backed with exceptional customer support from its PARTS team. Together, JETS, MRO and PARTS offer a premium turn-key solution for private aviation clients.



## EmbraerX and Elroy Air to collaborate on unmanned air cargo

EmbraerX, Embraer's disruptive business subsidiary, has reported its expansion into the commercial air cargo market via a collaboration agreement with Elroy Air, at CES 2020. This collaboration will allow the companies to accelerate the unmanned air cargo market worldwide, leveraging Embraer's 50 years of industry experience with Elroy Air's bold new developments in autonomous aircraft systems. This collaboration is part of EmbraerX's multi-project approach to further develop the air mobility ecosystem and create the conditions for people and goods to move from A to B in a seamless and affordable way. Beyond cargo, EmbraerX is engaged in several projects, including the development of an Urban Air Mobility focused eVTOL, a tailored Urban Air Traffic Management (UATM) system and a fleet-agnostic business platform, called Beacon, to streamline services.



Elroy Air - first autonomous flight

Photo: Embraer

## 176 passengers and crew killed as Ukrainian Boeing 737-800 crashes in Iran



Ukraine International Airlines

Photo: AirTeamImages

A Boeing 737-800 belonging to Ukraine International Airlines has crashed shortly after taking off from Imam Khomeini International Airport, Tehran at 6.12 a.m. local time, Wednesday. The plane, flight PS752, was heading for the capital of Ukraine, Kyiv. According to eyewitnesses, the plane was ablaze prior to crashing into the ground two miles to the north-east of the airport. Among the victims were 82 Iranians, 63 Canadians, 11 Ukrainians including 9 crew, ten Swedes, four Afghans, three Britons and three Germans, Foreign Minister Vadym Prystaiko confirmed. Ukraine International Airlines has

suspended flights to Tehran indefinitely. The airline said that the aircraft had had its last scheduled maintenance on Monday. It is understood that the aircraft was manufactured in 2016 and was delivered new to the carrier. The aircraft's black boxes have already been recovered and Iranian, Ukrainian, U.S. and French authorities will all be involved in the investigation, with Iran explicitly extending the invitation to join the investigation to the United States accident-investigation agency. The National Transportation Safety Board stated that it would "evaluate its level of participation in the investigation."

## MRO & PRODUCTION NEWS

### Aero Controls approved as cylinder re-qualification facility

Aero Controls has officially been approved as a cylinder requalification facility by the Department of Transportation (DOT), using the "hydrostatic" test method. This is to support its capability development for slides, rafts, fire bottles, oxygen bottles and other emergency equipment.

### AerSale Component Solutions receives FAA approval to overhaul landing gear

AerSale Component Solutions, a division of AerSale, has received approval from the Federal Aviation Administration (FAA) to overhaul Boeing 737-, 757-, and 767-series aircraft landing gear. FAA approval to overhaul landing gear for the Airbus A320 family of aircraft is expected in the coming months. "We are committed to providing our customers with a full suite of products and services, and FAA approval to overhaul landing gear used on widely popular commercial aircraft is yet another example of the broad range of integrated aircraft solutions and technical capabilities we offer," said Nicolas Finazzo, Chairman & Chief Executive Officer of AerSale. "Our goal is to provide our customers with a convenient, cost effective, and quality one-stop shop to service their needs."

### EDM completes B777 CEET project with All Nippon Airways



EDM completes installation of B777 CEET at ANA's Blue Base  
Photo: EDM

EDM, a leading global provider of training simulators to the civil aviation and defense sectors, has announced that its team successfully completed a project with All Nippon Airways (ANA), having installed its high-fidelity B777 Cabin Emergency Evacuation Trainer (CEET) at ANA's new state-of-the-art training center called ANA Blue Base. Following the news that EDM has been selected to supply ANA with this new

CEET, its team in the UK began designing and manufacturing the complex build, incorporating various features that ANA requested be installed in this trainer.

### SAS entrusts whole new A320neo fleet base maintenance services to Magnetic MRO

Magnetic MRO, a Total Technical Care and asset management organization, and SAS Scandinavian Airlines have extended their base maintenance agreement for base maintenance services for the carriers whole A320neo fleet. The original contract between the two companies was signed in December 2017 and recently was been prolonged until 2023, consisting of maintenance visits of 56 airplanes.



SAS and Magnetic MRO extend base maintenance agreement  
Photo: Magnetic MRO

### Latest spaceship in Virgin Galactic's fleet completes major build milestone



Virgin Galactic second spaceship Weight on Wheels Photo: Virgin Galactic

Virgin Galactic has completed a major milestone in the build of its next spaceship. In a moment comparable to a ship taking to the water for the first time, the latest spaceship is now bearing its own weight in a stage of its assembly termed Weight on Wheels. At this critical juncture, 80% of the vehicle's major structural assembly is complete. This Weight on Wheels milestone has been reached considerably faster than it took to get to this stage with the first SpaceShipTwo, VSS Unity, which is currently in flight-test. This has been achieved through experience curve benefits which include an evolution to a more modular-based assembly process. With the spaceship now bearing its own weight, the teams are starting work connecting the modules' integrated systems, including the flight control systems from fuselage to tail booms. A secondary benefit of Weight on Wheels is the mobility it affords the spaceship, allowing better access and greater efficiencies for the engineers as they complete the build. The teams will also now be able to check and confirm the vehicle's weight. As this work completes, the spaceship will be positioned in the hangar for the start of integrated vehicle ground testing which verifies the integrity of all its systems. This is a precursor to moving the spaceship from Mojave to Spaceport America in New Mexico where it will start its flight test program. The Virgin Galactic spaceship fleet is beginning to take shape with a third spaceship, also under construction in Mojave, currently around 50% structurally complete. In the coming months, that vehicle will achieve its next major milestone, with completion of its wing and tail boom structure. Virgin Galactic plans to build 5 spaceships in total and a second mothership to meet the demand for human space flight beyond the 600 Future Astronauts from 60 countries, who have already purchased tickets to fly.





Series 6LC Economy Class seat

Photo: Acro

### Spirit Airlines unveils new Series 6LC Economy Class seat

On December 17, Spirit Airline revealed its new A320neo aircraft at its Detroit hangar, with redesigned cabin interiors featuring the Series 6LC Economy Class seat by Acro. Spirit is the launch customer for this next-generation seat which has been designed to fulfil the product requirements of low-cost carrier airlines who want to achieve a robust and lightweight seating solution without compromising comfort and the ability to offer seat features which will improve the passenger experience. Spirit selected Acro for the delivery of Series 6LC on forty line fit and forty-three retrofit A320 aircraft, with first deliveries and installations taking place this month at the Detroit hangar.

### Rolls-Royce opens new facility in Bristol, U.K.

A new Rolls-Royce facility which will develop jet engine technologies set to transform flight, reduce emissions and set new benchmarks for efficiency has opened in Bristol, U.K. The composite technology hub will develop fan blades and fan cases which significantly reduce weight in a jet engine, lowering fuel consumption and emissions. The fan blades and fan cases being made at the facility are a feature of the Rolls-Royce UltraFan® engine demonstrator, a revolutionary new engine design which will reduce fuel burn and CO2 by at least 25% compared to the first Trent engine. The new facility will use low-energy, very-low emissions processes and features state-of-the-art automated manufacturing methods and materials. It will maximize the use of raw materials, reducing waste. Rolls-Royce has pledged to achieve zero emissions at its operations and facilities by 2030\* as Rolls-Royce has a crucial role to play in the transition to a net zero carbon economy and has a three-part environmental approach: reducing the impact of existing technologies; pioneering electrification in aviation, and working with the industry to accelerate the use of sustainable fuels.

\*Excluding power generation and test operations



New composite technology facility in Bristol, U.K.

Photo: Rolls-Royce



BEDEK performs maintenance on a foreign airlines' aircraft

Photo: BEDEK

### BEDEK receives AS9110C Standard Certification

BEDEK, Israel Aerospace Industries' (IAI) Maintenance Organization, has received the AS9110C Standard Certification for the management of maintenance and continuous airworthiness for aircraft, either civilian or military, that are in need of Maintenance Repair and Overhaul (MRO) services. This standard is specifically tailored to the regulatory requirements, aviation law, and global aviation regulations, with the understanding that the intended lifespan of aircraft is fifty years or more after production, and therefore a high level of maintenance is crucial to their safe and continuous operation. The certification to the new standard (from the previous AS9100D), will streamline business and operational efficiency within the organization, and drive an increase in business as part of IAI's strategy. The certification, provided by the NSF Certifying Body, demonstrates IAI's continued commitment to the highest standards and quality of work within the aerospace industry.



## FINANCIAL NEWS

### Interglobe Aviation to call EGM over share rules for its offshoot, IndiGo Airlines

As a result of a long-running spat between IndiGo's co-founders, Rakesh Gangwal and Rahul Batia, parent company Interglobe Aviation has called an extraordinary general meeting for January 29 to give consideration to a proposal by Rakesh Gangwal who, with the Chinkerpoo family trust and Shobha Gangwal, holds a 37% stake in the company through the RG Group. Gangwal wants to amend IndiGo's articles of association covering rules around the sale and acquisition of shares by its two major shareholders, making it easier for either party to sell or increase their stake in the Indian low-cost carrier. Relations between the co-founders reached an all-time low in July 2019 when IndiGo published a 49-page document detailing Gangwal's allegations of governance improprieties. Bhatia countered that Gangwal was using it as a ploy to take greater control of the carrier. As a consequence, Bhatia turned to the London Court of International Arbitration to resolve hostilities between himself and Gangwal. In a stock market disclosure on January 3, Interglobe Aviation disclosed an EGM will be held on 29 January to "consider and, if thought fit, pass" a resolution amending the company's articles of association. Founded in 2005 and with its main hub at Delhi's Indira Gandhi International Airport, IndiGo is India's largest airline and is currently undergoing a massive expansion program as a result of the demise of Indian low-cost carrier Jet Airways in April 2019. Having placed an order for 300 Airbus A320neo Family aircraft in October 2019, IndiGo currently operates more than 1,400 daily flights serving 83 destinations.



IndiGo

Photo: AirTeamImages

### Magnetic MRO to launch leasing arm, aiming for US\$500 m portfolio by 2025



Alex Vella

Photo: Magnetic MRO

Magnetic MRO along with Crestline Investments, a U.S. institutional alternative investment management firm, have announced the launch of a joint venture company that will focus on long- and short-term aviation asset management and leasing – Magnetic Leasing. The recently established JV specializes in mid-life Airbus A320 Family and Boeing 737 CL/NG aircraft, as well as engines and landing gear systems for narrow-body aircraft. By the end of 2020, Magnetic Leasing expects to have a portfolio worth US\$100 million under its management. "Magnetic MRO with its universal mindset and global presence, already had various aviation assets that were acquired from our customers and partners, restored, and successfully remarketed. As 2020 was approaching, there was a strategic decision made to continue diversifying our business in order to ensure further growth in the next decade. Thus, we decided that, amongst other business objectives, we need to expand our asset management activities, and teaming with Crestline Investments as our partners in this endeavor, created Magnetic Leasing. We are extremely confident that the expertise and talent of

our joint team will drive Magnetic Leasing to establish a US\$500 million portfolio by 2025," shared Alex Vella, Chief Operations Officer at Magnetic Leasing. Currently, Magnetic Leasing already manages an asset portfolio which includes Airbus A320 Family, Boeing 737 NG and Boeing 737 CL aircraft, as well as CFM56-3, CFM56-5B, CFM56-7B, V2500-A5, RB211-535 engines and multiple Airbus A320 Family and Boeing 737 NG/CL landing gear sets. In five years, the company expects to manage at least 30 narrow-body aircraft and 20 engines.

## FINANCIAL NEWS

### STS Aviation Group acquires Airbase Services

STS Aviation Group (STS) has acquired Airbase Services / Les Services Airbase (Airbase), an aircraft interiors maintenance, repair and management specialist based out of Montreal, Quebec, Canada. With this acquisition, STS formally enters the Canadian MRO market as Airbase has four Transport Canada-approved facilities in YUL, YYZ, YWG and YVR. The sale is being publicized as turnkey, and STS will immediately assume control of Airbase Services personnel and operations. Lena Watters, who was the acting President of Airbase prior to the acquisition, will stay on as President alongside much of the company's existing workforce.

### Jet Parts Engineering acquires Aero Parts Mart

Jet Parts Engineering (JPE), a leading PMA parts supplier, has reported the acquisition of Aero Parts Mart (APM). APM is a Fort Worth, TX-based engineering design company that provides cost-saving solutions through the design, production, and distribution of products to the regional segment of the aviation industry. "It was critical that I find the right home for Aero Parts Mart; a home where the APM team and most importantly our customers would remain top priority," remarked Steve Bowen, President of APM. "For over two decades, APM has built a reputation and brand synonymous with the core values of safety, quality, customer satisfaction, and innovation. Jet Parts Engineering shares these values, which are paramount to APM's continued growth and success. I am truly excited to have found APM's new home with JPE." Bowen will maintain a leadership role with APM. The transaction was overseen by Vance Street Capital LLC, a middle-market private equity firm focused on investing in highly engineered solutions businesses across the aerospace and defense, industrial, and medical markets. JPE is a Vance Street Capital portfolio company.

### Wesco Aircraft acquired by affiliate of Platinum Equity

Wesco Aircraft Holdings has reported that the expected acquisition of the company by an affiliate of Platinum Equity has been completed in a transaction valued at approximately US\$1.9 billion. At closing, Wesco Aircraft was combined with Platinum Equity portfolio company Pattonair, a provider of supply chain management services for the aerospace and defense industries based in the United Kingdom. The combined company, which will be headquartered in Valencia, following closing, becomes a US\$2.4 billion business with a global footprint in 17 countries and with more than 4,000 employees. The combined company will serve more than 8,400 customers, including many of the world's leading aerospace and defense original equipment manufacturers and

### Bain Capital Credit to invest in Atlas Air Worldwide's Titan Aircraft Leasing business



Photo: Atlas Air

Titan Aviation Holdings – a subsidiary of Atlas Air Worldwide Holdings – and Bain Capital Credit have entered into an agreement to form a joint venture to develop a diversified freighter aircraft leasing portfolio with an anticipated value of approximately US\$1 billion. The long-term joint venture aims to capitalize on demand for cargo aircraft, underpinned by robust e-commerce and express market growth. Under the joint venture, Bain and Titan have committed to provide US\$360 million and US\$40 million of equity capital, respectively, which may be supplemented with additional commitments over time, to acquire aircraft over the next few years. Titan will also provide aircraft- and lease-management services to the venture. Since its inception in 2009, Titan has grown to become the third-largest freighter lessor globally, by fleet value with over 30 aircraft and book value of over US\$1.5 billion.

### Embraer KC-390 Millennium airlifter successfully concludes airdrop testing campaign



KC airdrop

Photo: Embraer

The KC-390 Millennium new-generation multi-mission medium airlifter has successfully concluded the testing campaign for gravity airdrop and extraction drop of heavy loads by the use of the Container Delivery System (CDS) and Low Velocity Air Drop (LVAD), respectively. The KC-390 Millennium has a fully automated Cargo Handling and Aerial Delivery System on the cargo compartment, where a loadmaster can perform all activities, while reducing workload and improving awareness. For the pilots, a system called CCDP (Continuously Computed Drop Point) calculates the optimum airdrop release point for better accuracy on the mission accomplishment. Both systems were developed by Embraer. The tests, conducted by Embraer in cooperation with the Brazilian Air Force and the Brazilian Army, were performed at the U.S. Army Yuma Proving Ground facilities, in Arizona, USA. Major achievements of the testing campaign were the airdrop of a single maximum platform weighing 19 metric tons (42,000 lbs) as well as the sequential aerial delivery of two platforms weighing 24 metric tons in total. Based on these results, the KC-390 Millennium becomes the only medium airlifter able to perform such extreme operation. Over the 2019 airdrop campaign the KC-390 Millennium delivered several containers by gravity with up to 24 containers in one pass, and multiple Type V platforms using extraction parachutes, with a total combined payload of 330 metric tons.



## FINANCIAL NEWS

their subcontractors. The combined company's comprehensive portfolio of aerospace products will comprise more than 644,000 SKUs that are used in the production of commercial and military aircraft, including airframes, engines, hydraulic units, actuation systems and landing gear.

### American Airlines agrees partial settlement with Boeing over 737 MAX grounding

As a result of a US\$540 million shave off its pretax income since the grounding of the Boeing 737 Max in March 2019, American Airlines (American) has reached an undisclosed settlement figure with Boeing Co. to cover the carrier's losses as a consequence. The figure is not a complete settlement and does not include any compensation that will be due for 2020. Currently, American has removed all 737 MAX flights from its schedule until April 6. The carrier has confirmed that US\$30 million of the compensation will be shared with staff to cover lost earnings through the 737 MAX grounding. American is following on from Southwest Airlines which has also negotiated a settlement figure with Boeing, while earlier on Monday this week, Grupo Aeromexico SAB announced it has also reached an agreement for compensation with Boeing. Southwest Airlines has removed the 737 MAX from its schedule until April 13. According to Bloomberg, American Chief Executive Officer Doug Parker said: "Our ability as an airline to weather these unprecedented times is thanks to our phenomenal team, and it was important to us that we get a deal done before the end of the year." The compensation payable will most likely take the form of reduced payments for 737 MAX jets American currently has on order and paid over a number of years. Boeing announced back in July that it had taken a US\$5.6 billion pretax charge to cover potential claims from clients as a result of the MAX grounding.

## MILITARY AND DEFENCE

### Lockheed Martin delivered 134 F-35s in 2019

Lockheed Martin has delivered the 134 F-35 aircraft in 2019, exceeding the joint government and industry 2019 delivery goal of 131 aircraft. One hundred and thirty-four deliveries represent a 47 percent increase from 2018 and a near 200 percent production increase from 2016. Next year, Lockheed Martin plans to deliver 141 F-35s and is prepared to increase production volume, year-over-year, to hit peak production in 2023. The 134th aircraft, delivered on December 30, is a Short Takeoff and Vertical Landing (STOVL) model for the United States Marine Corps. In 2019, deliveries included 81 F-35s for the United States, 30 for international partner nations and 23 for Foreign Military Sales customers.



A Delta Helicopters Airbus AStar 350 B2 in mid-flight

Photo: Delta Helicopters

**Delta Helicopters** will be upgrading to **WinAir** Version 7. Having used two previous versions of WinAir's software for the past 16 years, the company determined that a move to a more robust and browser-based version of the software would be a significant benefit to its entire operation. As a result, WinAir's Product Implementation team will visit Delta's headquarters in St. Albert, Alberta, to complete the on-site training and go-live phase of the software implementation. Delta Helicopters is a leading helicopter operation with six bases in Alberta, Canada. The company was established in 1972 and currently employs approximately 50 staff. It offers a variety of services to clients within the province and throughout Canada from the oil and gas industry, forestry industry, mining industry, the government, and so on. These services consist of chartering staff, equipment transportation, stand-by evacuation, fire suppression, aerial seeding, land surveying, thermal imaging, pipeline inspection, powerline inspection, search and rescue, wildlife population counts, air ambulance/medevac services, and sightseeing expeditions.



Opening of the new Hawaiian IT Center

Photo: Hawaiian Airlines

**Hawaiian Airlines** has announced the opening of an Information Technology Center in Tempe, Ariz., the carrier's largest office outside its Honolulu headquarters. The airline, which has offered daily nonstop flights between Phoenix and Honolulu since 2002, welcomed 60 employees to its 15,000-ft<sup>2</sup> center. The new space complements Hawaiian's technical capabilities in Honolulu and enhances the company's ability to hire IT professionals from across the U.S. mainland. Hawaiian, Hawaii's largest and longest-serving airline, opened a temporary IT office in Arizona early last year before moving to the current location two months ago. It plans to nearly double the staff at the center by continuing to partner with Arizona State University and other local educational institutions to offer IT internships and recruit positions ranging from software engineers and architects to database managers and business analysts.



## PASSENGER STATISTICS - DECEMBER

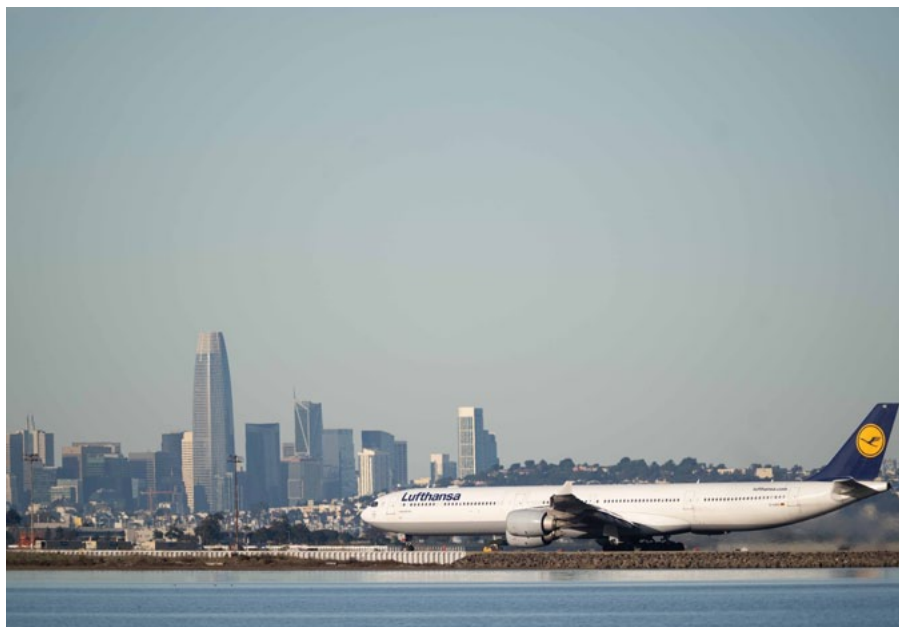
- **IAG** traffic in December 2019 increased by 6.4% versus the same period in 2018, while capacity increased by 2.0%. The load factor was up by 3.5 points to 83.9% versus December 2018.
- In December 2019, **Finnair** experienced strong demand and carried 1,154,000 passengers, 11.7% more than in the corresponding period of 2018. The overall capacity increased in December by 12.3%. Finnair's traffic increased by 13.5%, and the passenger load factor increased year-on-year by 0.8% points to 77.2%.
- **SAS Scandinavian Airlines** has released that the total capacity increased by 0.9% in December 2019, while traffic increased by 2.6%, driven by growth in demand on SAS scheduled traffic. As a result, the passenger load factor improved by 1.2 points to 71.1% when compared to the previous year. Currency adjusted unit revenue and passenger yield increased by 3.1% and 1.2% respectively.
- **Norwegian** has reported that total capacity decreased by 25% in December 2019, while total passenger traffic decreased by 21% compared to December 2018. The load factor was 83.5%, up by 4.9 points compared to the previous year. The unit revenue increased by 21%.
- **The Air France / KLM Group** (Air France, KLM and Transavia) has released its traffic figures for December 2019. Group traffic increased 3.5% compared to December 2018, while capacity was up 2.6%. Group load factor increased 0.7 points to 86.4%, compared to the previous year.



The Lufthansa Group will be hiring more than 4,500 new employees in Germany, Austria and Switzerland  
Photo: Lufthansa Group

This year the **Lufthansa Group** will be hiring more than 4,500 new employees in Germany, Austria and Switzerland as things currently stand; among them 3,000 hires will take place in Germany. This involves both replacement appointments due to fluctuation and, in some cases, job increases. The focus of the recruitment planned in the DACH countries is "on the ground" with around 2,500 positions. Almost 1,300 new flight attendants are to be hired across the Lufthansa Group. Around 1,000 new employees are slated to be hired at the core brand **Lufthansa** in 2020. 450 prospective flight attendants alone will begin their training at the Munich location. In addition, 40 flying colleagues will be joining **Lufthansa CityLine** at the Bavarian hub. The Lufthansa subsidiary in Munich plans to employ approximately as many administrative staff. Furthermore, around 100 recruitments in administration are planned at Lufthansa, along with around 300 in ground operations. The crane airline is also looking for candidates in the area of IT and for other expert positions this year.

**Shell Aviation** and **World Energy** have announced a collaboration to develop a scalable supply of sustainable aviation fuel (SAF). The agreement is intended to be a multi-year collaboration, with both companies acknowledging that the path to lower carbon emissions in aviation requires long-term commitment and collaboration. As part of the collaboration, Shell Aviation and World Energy also announced that they have initiated the supply of SAF to **Lufthansa Group** at San Francisco International Airport (SFO). The supply will reduce Lufthansa's carbon emissions on intercontinental flights on three routes operated by **Deutsche Lufthansa** and **Swiss International Air Lines** from SFO to Frankfurt, Munich and Zurich. The deal represents one of the most significant SAF supply contracts globally, with up to one million gallons of SAF to be supplied to Lufthansa over the duration. It is the largest contracted SAF volume to be delivered to SFO since the airport announced its ambition to expand the use of SAF in its operations last year.



The Lufthansa Group will use SAF at San Francisco International Airport (SFO)

Photo: Shell Aviation

## OTHER NEWS

The **International Air Transport Association** (IATA) has released data for global air freight markets showing that demand, measured in freight ton kilometers (FTKs), decreased by 1.1% in November 2019, compared to the same period in 2018. This marks the thirteenth consecutive month of year-on-year declines in freight volumes. Despite the decline in demand, November's performance was the best in eight months, with the slowest year-on-year rate of contraction recorded since March 2019. In part, November's outcome reflects the growing importance of large e-commerce events such as Singles Day and Black Friday. While international e-commerce continues to grow, overall air cargo demand continued to face headwinds from the effects of the trade war between the U.S. and China, the deterioration in world trade, and a broad-based slowing in global economic growth. Freight capacity, measured in available freight ton kilometers (AFTKs), rose by 2.9% year-on-year in November 2019. Capacity growth has now outstripped demand growth for the 19th consecutive month. Airlines in Asia-Pacific, Latin America and the Middle East suffered sharp declines in year-on-year growth in total air freight volumes in November 2019, while North American carriers experienced a more moderate decline. Europe and Africa were the only regions to record growth in air freight demand compared to November last year.



JetBlue Airways

Photo: AirTeamImages

**JetBlue** will offset carbon dioxide emissions (CO2) from jet fuel for all domestic JetBlue flights beginning in July 2020, making it the first major U.S. airline to take this critical and measurable step toward reducing its contribution to global warming. JetBlue also announced plans to start flying with sustainable aviation fuel in mid-2020 on flights from San Francisco International Airport. As part of the airline's plan to prepare for a changing climate, these commitments underscore JetBlue's long-term strategy to ensure a more sustainable business for crewmembers, customers, shareholders and communities served by the carrier. The efforts also build on the airline's existing programs like investments in fuel-saving technologies and aircraft, as well as advocating for a more fuel-efficient air traffic control system that would reduce emissions from flying. The expansion is expected to offset an additional 15-17 billion pounds (7 to 8 million metric tons) of emissions per year – the annual equivalent of removing more than 1.5 million passenger vehicles from the road. JetBlue will offer ways for the airline's customers and communities to connect with the carbon offsetting projects JetBlue is engaging with.

## INDUSTRY PEOPLE



Carroll Lane

Pratt & Whitney has announced that **Carroll Lane** has assumed the role of President of the company's Commercial Engines business, reporting to Pratt & Whitney President

**Christopher Calio**. Lane succeeds Chris Calio in this role, who was named President of Pratt & Whitney last year, with an effective date of January 1, 2020, succeeding Bob Leduc, who retired from the company after more than four decades of service. Lane returns to Pratt & Whitney after leading Investor Relations for United Technologies Corporation, where he was responsible for developing and implementing strategies that position UTC as a preferred investment to domestic and



Matt Klein

international investor communities. Spirit Airlines' Board of Directors has promoted **Matt Klein** to the position of Executive Vice President and Chief Commercial Officer (CCO). In this role, Klein will oversee Marketing, Pricing & Revenue Management, Network Planning & Scheduling, and Commercial & Operational Analytics. He joined Spirit in August 2016 as Senior Vice President and CCO. Klein has over 20 years of management experience in the airline and travel industries. Prior to joining Spirit, Klein most recently worked in various consulting capacities in the travel industry. Prior to that, he served as Chief Commercial Officer at lastminute.com and as Vice President, Global

### Airline Relations at Travelocity.



Patrick Hannigan

CDB Aviation, a wholly owned Irish subsidiary of China Development Bank Financial Leasing Co. (CDB Leasing), has released that aviation industry veteran **Patrick Hannigan** has been named the company's new Chief Executive Officer, taking the helm at a pivotal time in the lessor's robust development, with the goal of furthering its growth momentum. Hannigan, who is promoted to CEO from his current position of President and Chief Commercial Officer, succeeds **Peter Chang**, whose planned retirement caps three years of leading the successful transformation of CDB Aviation into a formidable, full-service, global aircraft leasing platform.



## INDUSTRY PEOPLE

- Alaska Air Group has reported that **Brandon Pedersen**, Chief Financial Officer since 2010, plans to retire on March 2. **Shane Tackett**, currently Alaska's executive vice president of planning and strategy will succeed Pedersen, focusing on execution of the company's business model for continued long-term growth and value for guests, employees, owners and communities. After serving as Alaska's outside auditor for 11 years, he joined Alaska in 2003 as vice president of finance and controller and was promoted to CFO in May 2010. During his tenure as CFO, Alaska acquired Virgin America, fortified its balance sheet and initiated a dividend that has grown every year since 2013.



Kieran Murphy



Martin Cole

- Pattonair, the global aerospace and defence supply chain provider, has welcomed **Kieran Murphy** and **Martin Cole** into the newly-created positions of Innovation Manager at its Derby headquarters. Their appointments come at an exciting time for the company, which has embarked on a US\$1.9 billion merger with US-based Wesco Aircraft Holdings and acquired aircraft spares company Adams

Aviation. Murphy has more than 20 years' experience in the industry and has a widespread knowledge of digital technology and artificial intelligence (AI). A previous role saw him working at Rolls-Royce's R2 Data Labs identifying and implementing opportunities for digital transformation within the business. Cole brings more than ten years' experience in the automotive, nuclear, aerospace and defence sectors to his new role. Both men are joining a team of seven innovation and data specialists and will report to **Jason Rance**, Pattonair's Global Innovation Director. Their appointments build on the company's commitment to recruit the best talent in the region to maintain its position as the aerospace sectors leading provider of innovative supply chain solutions.

## Recommended Events



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### OPERATING LEASE & AVIATION FINANCE SEMINAR

24-26 March 2020 - Holiday Inn High Street Kensington, London

[Click here for more aviation events](#)



Willie Walsh

- Willie Walsh** has announced he is to retire from International Airlines Group (IAG), officially on June 30, and will be stepping down as Group CEO and Chairman of the Board on March 26.

Walsh is responsible for the creation of IAG through the merger of British Airways with Iberia, followed by Aer Lingus, Vueling, low-cost hybrid Level and, shortly, to include Spanish carrier Air Europa. Irishman Walsh began his long relationship with the airline industry as a pilot with Aer Lingus back in 1979, rising through the ranks to head the Irish carrier in 2001 where he successfully dealt with various challenges presented by the then new low-cost carrier Ryanair. In 2005 Walsh became CEO of British Airways. IAG will now be run by current Iberia CEO **Luis Gallego** who began his career in the Spanish Air Force. He has a long history indirectly connected with IAG carriers having worked with Iberia franchise partner Ad Nostrum between 1997 and 2006. He then transferred to Clickair just prior to its merger with Vueling. In 2006 Gallego was made CEO of Iberia Express before becoming Iberia CEO in 2013 and also its Chairman in 2014.

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# THE AIRCRAFT AND ENGINE MARKETPLACE

## Commercial Jet Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
A319-100	DVB Bank	CFM56-5B63	3586	2008	Q3/2020	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
A319-100	BBAM	CFM56-5B5/P	2129	2004	May 2020	Sale / Lease	Steve Zissis	info@bbam.com	+1 415 486 6100
A320-200	ORIX Aviation	CFM56-5B4/P	2584	2005	Q1/2021	Sale / Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A320-200	TrueAero Asset Management	V2527E-A5	5794		Nov 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A320-200	TrueAero Asset Management	V2527E-A5	5531		Oct 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A320-200	TrueAero Asset Management	V2527E-A5	5296		Aug 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A320-200	TrueAero Asset Management	V2527E-A5	5089		Jun 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A320-200	TrueAero Asset Management	V2527E-A5	5050		Apr 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A320-200	DVB Bank	V2527-A5	3734	2009	Q1/2020	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
A320-214	DVB Bank	CFM56-584/3	3767	2009	Q1/2021	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
A320-232	DVB Bank	V2527-A5	2156	2005	Q1/2020	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
A330-200	DVB Bank	CF6-80E	814	2007	Q2/2020	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
A330-200	GA Telesis	CF6-80E1A4	510	2002	Now	Sale	Mauro Francazi	aircraft@gatelesis.com	+1-954-676-3111
A330-200	Presidio Aircraft Leasing	CF6-80E1A3	871	2007	Now	Lease	Stephen Haire	shaire@aelfinc.com	+1 312 772 1613
A330-200	TrueAero Asset Management	CF6-80E1A4/B	882		Apr 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A330-200	TrueAero Asset Management	CF6-80E1A4/B	901		Apr 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A330-200	TrueAero Asset Management	CF6-80E1A4/B	932		May 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A330-223	Presidio Aircraft Leasing	PW4168A	970	2008	Now	Lease	Stephen Haire	shaire@aelfinc.com	+1 3127721613
A330-300	BBAM	Trent 772B-60	1544	2014	Jul 2020	Sale / Lease	Steve Zissis	info@bbam.com	+1 415 486 6100
A330-300	BBAM	Trent 772B-60	1562	2014	Sep 2020	Sale / Lease	Steve Zissis	info@bbam.com	+1 415 486 6100
A330-300	DVB Bank	Trent 772B-60	1485	2014	Q1/2020	Sale / Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
A330-300	DVB Bank	Trent 772B-60	1146	2010	soon	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
737-700	BBAM	CFM56-7B22	34295	2005	Mar 2020	Sale / Lease	Steve Zissis	info@bbam.com	+1 415 486 6100
B737-700	Kellstrom Aerospace	CFM56-7B26	28210	1998	Now	Sale	Michael Garcia	info@kellstromaerospace.com	+1 (847) 233-5800
B737-800	ORIX Aviation	CFM56-7B26E	38034	2012	Q4/2020	Sale / Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
B737-800	ORIX Aviation	CFM56-7B26	34153	2005	Q1/2021	Sale / Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
B737-800	Willis Lease				soon	Sale / Lease	Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775
B757-223 (7x)	Jetran	RB211-535E4B	various	91/92	Now	Lease	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
(2) B787-800	Willis Lease	CFM56-7			soon	Sale / Lease	Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775

## Regional Jet / Turboprop Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
CRJ-200LR	Regional One	CF34-3B1	8062	2006	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
CRJ-700	Regional One	CF34-8C5B1	10205	2005	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
D0328 Jet	Regional One	PW306B	3185	2001	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
Do328-100	Jetran	PW119B	3049	1996	Now	Sale	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
Do328-110	Jetran	PW119B	3024	1994	Now	Sale	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
Do328-110	Jetran	PW119B	3034	1995	Now	Sale	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
ERJ-170LR	AerFin	CF34-8E	1700155		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700124		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ170-100LR	Regional One	CF34-8E5	17000123	2006	Nov 2019	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164

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# THE AIRCRAFT AND ENGINE MARKETPLACE

## Regional Jet / Turboprop Aircraft (cont.)

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
ERJ-145LR	Regional One	AE3007A1	145304	2001	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
ERJ-145LR	Regional One	AE3007A1	145331	2000	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164

## Commercial Engines

Multiple Types	Sale / Lease	Company	Contact	Email	Phone
Multiple Engines GE / CFM / RB211	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
AE3007 Engines	Sale / Lease	Company	Contact	Email	Phone
(3) AE3007A1P	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 786-623-3936
(1) AE3007A1	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Ben Ferguson	Benjamin.ferguson@rolls-royce.com	+44 7807 969 372
CF34 Engines	Sale / Lease	Company	Contact	Email	Phone
CF34-8E5	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
CF34-10E	Now - Lease				
CF34-8C	Now - Lease				
CF34-3B1	Now - Sale				
CF34-3A	Now - Sale / Lease				
(2) CF34-8C5B1	Now - Sale / Lease	Regional One	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
(1) CF34-3B1	Now - Sale / Lease				
(3) CF34-10E	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) CF34-8E5A1	Jan 2020 - Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204x202
(1) CF34-8C5A1	Jan 2020 - Lease				
(1) CF34-10E6	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CF34-10E7	Now - Lease				
CF34-8E(s)	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1 (513) 782-4272
CF6 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CF6-80C2B6F	Now - Sale / Lease	GA Telesis	Eddo Wiejer	ewiejer@gatelesis.com	+1-954-676-3111
(1) CF6-80C2B1F	Now - Sale / Lease				
(1) CF6-80C2B7F	Now - Sale / Lease				
(1) CF6-80E1A4	Now - Sale / Lease				
(1) CF6-80C2A8	Now - Sale / Lease	ULS Airlines Cargo	Cem AKIN	cem.akin@ulsairlines.com	+90 212 496 0202
(1) CF6-80C2A8	Feb 2020 - Sale / Lease				
(1) CF6-80C2B1F	Now - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
CFM Engines	Sale / Lease	Company	Contact	Email	Phone
(2) CFM56-5B (all thrust levels)	Now - Sale / Lease	Contrail Aviation	Kevin Milligan	kevin@contrail.com	+1 949-933-0797
(2) CFM56-7B (all thrust levels)					
(3) CFM56-7B24/3	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(2) CFM56-5B4/3	Now - Lease				
(1) CFM56-5B6/P	Now - Lease				
(1) CFM56-5B4/P	Now - Lease				
(1) CFM56-7B22/3	Now - Lease				
(1) CFM56-7B27/B3	Now - Lease				



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# THE AIRCRAFT AND ENGINE MARKETPLACE

## Commercial Engines (cont.)

(2) CFM56-5A	Now - Sale	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
(1) CFM56-5B3/3	Now - Lease	Rolls-Royce & Partners Finance	Charlie Ferguson	charlie.ferguson@rolls-royce.com	+44-(0)7772224895
(2) CFM56-7B22	Now - Lease	CFM Materials	Jimmy Hill	jimmy.hill@cfmmaterials.com	+1 -214-988-6670
(1) CFM56-7B26/3	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CFM56-7B26/E	Now - Lease				
(1) CFM56-5B3/3	Now - Lease				
(1) CFM56-5B4/3	Now - Lease				
(2) CFM56-7B22	Now - Sale / Lease	GA Telesis	Eddo Wiejer	ewiejer@gatelesis.com	+1-954-676-3111
(2) CFM56-5B6	Now - Sale / Lease				
(2) CFM56-5B4/P	Now - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
(2) CFM56-7B26/27	Now - Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(2) CFM56-5B6/P	Now - Lease				
(1) CFM56-5B4/P	Now - Lease				
<b>JT8D and JT9D Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) JT8D-219	Now - Sale	AZURE RESOURCES INC.	Jeff Young	jeff@azureres.com	1-954-249-7935
<b>GE90 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) GE90-115B	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(2) GE90-115	Now - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
<b>GE9x Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) GE9x1B74/75 Propulsor	Jan 2020 - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
<b>LEAP Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(2) LEAP-1B28	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) LEAP-1A33	Feb 2020 - Lease				
(1) LEAP-1A32	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) LEAP-1A-32	Now - Lease	Rolls-Royce & Partners Finance	Charlie Ferguson	charlie.ferguson@rolls-royce.com	+44-(0)7772224895
<b>PW 4000 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) PW4056-1C	Now - Sale / Lease	GA Telesis	Eddo Wiejer	ewiejer@gatelesis.com	+1-954-676-3111
<b>PW Small Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(3) PW121	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) PW123B/E	Now - Sale / Lease				
(3) PW127E/F/M	Now - Sale / Lease				
(1) PW150A	Now - Sale / Lease				
(2) PW123	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	leasing@willislease.com	+1 (561) 349-8950
(1) PW127F	Now - Sale/Lease/Exch.				
(1) PW150A	Now - Sale/Lease/Exch.				
(3) PW127M	Now - Sale/Lease/Exch.				
PW119B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
PW119B	Now - Lease				
PW120A	Now - Lease				
PW121 (ATR)	Now - Lease				
PW124B	Now - Lease				
PW123B	Now - Lease				
PW125B	Now - Lease				
PW127F	Now - Lease				
PW150A	Now - Lease				
PW127M	Now - Lease				
PW150A RGB	Now - Lease				
(1) PW124B	Now - Sale/Lease/Exch.	Logix.Aero	Jean-Christian Morin	jcmorin@logix.aero	+33.6.4782.4262
(2) PW127E/F	Now - Sale/Lease/Exch.		Remi Krysz	rkrysz@logix.aero	+33.6.2079.1039
(4) PW127M	Now - Sale/Lease/Exch.				
(1) PW118	Now - Lease / Exchange				
(1) PW118A	Now - Lease / Exchange				
(1) PW119B	Now - Lease / Exchange				
(1) PW121	Now - Lease / Exchange				
(1) PW121A	Now - Lease / Exchange				
(1) PW125B	Now - Lease / Exchange				
(1) PW120 / PW121	Now - Sale / Lease	Royal Aero	Calum MacLeod	calum@royalaero.com	+49 8025 993610

# THE AIRCRAFT AND ENGINE MARKETPLACE

## Commercial Engines (cont.)

PW Small Engines	Sale / Lease	Company	Contact	Email	Phone
(1) PW120A	Now - Sale / Lease	Regional One	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
(1) PW120	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) PW123E	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(4) PW126	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) PW121	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
Trent Engines	Sale / Lease	Company	Contact	Email	Phone
(1) Trent 772B	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Ben Ferguson	Benjamin.ferguson@rolls-royce.com	+44 7807 969 372
V2500 Engines	Sale / Lease	Company	Contact	Email	Phone
(2) V2533-A5	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Ben Ferguson	Benjamin.ferguson@rolls-royce.com	+44 7807 969 372
(2) V2533-A5	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) V2527-A5	Now - Lease				
(2) V2527-A5	Jan 2020 - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) V2527-A5	Now - Sale / Lease	GA Telesis	Eddo Wiejer	ewiejer@gatelesis.com	+1-954-676-3111
(1) V2533-A5	Now - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
(1) V2527-A5	Now - Lease				

## Aircraft and Engine Parts, Components and Misc. Equipment

Description		Company	Contact	Email	Phone
(1) A320-200 Landing Gear	Now - Sale/Lease/Exch.	TrueAero, LLC	Matt Parker	mparker@trueaero.com	+1 469-607-6110
A340-300/A330 Landing Gear	Now - Sale/Lease/Exch.				
A340-600 Landing Gear	Now - Sale/Lease/Exch.				
B777-200 Landing Gear	Now - Sale/Lease/Exch.				
Trent 552 Inlet Cowls & Fan Cowls	Now - Sale/Lease/Exch.				
Trent 892 Inlet Cowls and Fan Cowls	Now - Sale/Lease/Exch.				
CFM56-5B Inlet Cowls and Fan Cowls	Now - Sale/Lease/Exch.				
V2500-A5 Inlet Cowls & Fan Cowls	Now - Sale/Lease/Exch.				
CF6-80E Trust Reversers, Inlets & Fan Cowls	Now - Sale/Lease/Exch.				
APUs (2) APS2300	Now - Sale/Lease/Exch.				
APUs (2) GTCP331-500B, (1) APS3200	Now - Sale/Lease/Exch.				
Neutral CFM56-7B QEC Kit	Q4/2019 - Sale	CFM Materials	Michael Arellano	Michael.Arellano@cfmmaterials.com	+1-214-988-6676
767-300ER 413K, 737-300 LANDING GEAR	Now - Sale/Lease/Exch.	AZURE RESOURCES INC.	Jeff Young	jeff@azureres.com	1-954-249-7935
GTCP85-98DHF APU	Now - Sale/Lease/Exch.				
A320 Nose Landing Gear	Now - Sale/Lease/Exch.				
CFM56-3 LPT MODULE, REPAIRED	Now - Sale/Lease/Exch.				
CFM56-3 ENGINE STAND	Now - Lease				
(1) GTCP36-150RJ, (2) GTCP36-100M,	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) RE220RJ, (1) PW126 RGB, (1) PW901A					
(1) APS1000-C12, (1) APS1000-C3					
GTCP131-9A (2), GTCP131-9B(2)	Now - Lease	REVIMA APU	Olivier Hy	olivier.hy@revima-apu.com	+33(0)235563515
GTCP331-200, GTCP331-250	Now - Lease				
APS500C14(3), APS1000C12(2), APS2000	Now - Lease				
APS2300, APS3200(2), APS5000(2)	Now - Lease				
PW901A(4), PW901C(2)	Now - Sale / Lease				
TSCP700-4E	Now - Sale				
(1) PW901A APU	Now - Sale	Royal Aero	Gary MacLeod	gary@royalaero.com	+44 (0)141 389 3014
Neutral V2500-A5 QEC Kits (2) 745K9001-64	Q3+Q4/2019 - Sale	ASI Aero	Dean Morgan	deanm@asiaero.net	+1 561-771-4253
(1) GTCP131-9B	Now - Sale / Lease	DASI	Chris Glascock	Chris.Glascock@dasi.com	+1 954-801-3592
(multiple) APS2300, (1) GTCP331-350C	Now - Sale / Lease	AirFin	Nick Filce	Nick.Filce@aerfin.com	+44 7770 618 791
(1) GTCP36-300A, (1) GTCP131-9A					
(4) GTCP131-9A, (1) GTCP131-9B, (1) GTCP331-350		GA Telesis		apu@gatelesis.com	+1-954-676-3111
(1) GTCP331-200ER, (3) GTCP331-500, (1) APS3200					
GTCP131-9A, GTCP131-9B, GTCP331-350C	Now - Sale/Lease/Exch.	Logix.Aero	Jean-Christian Morin	jcmorin@logix.aero	+33.6.4782.4262
GTCP331-500B, GTCP331-200/250, APS5000			Rich Lewsley	rlawsley@logix.aero	+1 602 517 8210
APS3200, APS2300, GTCP85-129H					
(1) APU GTCP331-500, (1) APU GTCP131-9B	Now - Sale / Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
Engine stands now available	Now - Lease				
(2) PW901A, (1) PW901C(1), PW125B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368