

# Weekly Aviation Headline News

## WORLD NEWS

### Pegasus launches two new routes from London Stansted

Pegasus continues to expand its network with the launch of three new routes for 2020. The airline will fly from London Stansted direct to the Turkish capital city of Ankara with flights launching on 29 March 2020 as well as to Antalya, one of Turkey's most popular seaside destinations in the Mediterranean, as of 8 June 2020. The airline will also launch Helsinki from Istanbul Sabiha Gokcen on 9 June 2020, the first route in Finland. Pegasus has extended its network of destinations to 43 countries and increases its presence in Northern Europe with flights to Helsinki in addition to Copenhagen, Oslo and Stockholm.

### Air Astana reports profit growth in 2019

Kazakhstan's Air Astana has recorded a net profit (unaudited) for 2019 of US\$30.03 million, up from US\$5.3 million in the previous year. The airline carried 5.058 million passengers, an increase of 17% over 2018, with total airline revenue up by 6% to US\$893 million. Unit cost was lower at 5.5 US cents per Available Seat Kilometre. CEO Peter Foster stated that passenger demand improved considerably during the year, driven by a significant increase in charter operations and by increased demand primarily on domestic routes.

### easyJet renews partnership with Amadeus

easyJet and Amadeus announced the renewal of a long-term agreement, giving travel sellers continued access to easyJet's range of fares. The distribution agreement will support the airline's multi-channel growth strategy by continuing to focus on business travellers and ensuring easy access to book the airline's range of business-friendly products such as Inclusive and FLEXI Fares.



Airports like Heathrow will see a halt in arrivals from China mainland.

Photo:  
Express & Star

## Global airlines cancel services to China

With major repercussions to Chinese economy

British Airways was one of the first carriers to announce the cancellation of its flights from the UK to mainland China as a precaution against the spread of the coronavirus. The UK carrier announced that it has extended the cancellation of flights connecting Heathrow with Beijing and Shanghai up to and including February 29<sup>th</sup>.

Since then several global carriers have also cancelled services. After evaluating the situation in China

SAS decided to suspend all flights to and from Shanghai and Beijing, as from 31<sup>st</sup> January, until February 9<sup>th</sup>. SAS will also close sales for all

**“These cancellations are needed to manage the impacts of the recent suspension of group travel by Chinese authorities.”**

*Jaakko Schildt, Chief Operating Officer, Finnair*

flights to and from Shanghai and Beijing until February 29<sup>th</sup>.

The Lufthansa Group also decided to suspend its Lufthansa, SWISS and Austrian Airlines flights to/ from mainland China until 9

February with immediate effect. In addition, acceptance of bookings for flights to/from mainland China have been suspended until the end of February. The Lufthansa Group offers a total of 54 regular weekly connections from Germany, Switzerland and Austria to the Chinese mainland. Destinations are Nangjing, Beijing, Shanghai, Shenyang and Qingdao.

Finnair said it will cancel its three weekly flights between Helsinki

*Continued on page 3*



# POWER UP

APUs For SALE, LEASE & EXCHANGE

Honeywell GTCP131-9A  
Honeywell GTCP131-9B  
Honeywell GTCP331-200ER  
Honeywell GTCP331-350  
Honeywell GTCP331-500  
Pratt & Whitney PW901A  
Pratt & Whitney APS3200



When you need an APU solution, it's important to POWER UP with a partner that has the parts and experience to support your fleet. Choose GA Telesis for your APU purchase, exchange or leasing solution.

Your job is in the sky – our job is to keep you there.™

Email: [apu@gatelesis.com](mailto:apu@gatelesis.com)



...continued from page 1

and Beijing Daxing International Airport between February 5 and March 29, and its two weekly flights between Helsinki and Nanjing between February 8 and March 29<sup>th</sup>.

"These cancellations are needed to manage the impacts of the recent suspension of group travel by Chinese authorities, which have a pronounced impact on the load factors of our Beijing Daxing and Nanjing flights," says Jaakko Schildt, Chief Operating Officer, Finnair.

However, most carriers have maintained their operations to Hong Kong.

At the time of this writing a total of 16 international carriers had suspended operations to China and with reduced air connections it is expected to have drastic impacts on China's economy in both tourism and industry.

One early estimate from the Economist Intelligence Unit predicted the effects of the virus would cut China's GDP 0.5–1.0 percentage points, or some \$7.2–14.3 billion. The outbreak hit at a crucial time for China's economy: Just before the all-important Lunar New Year holiday—a major spending and travel period.

## AIRCRAFT & ENGINE NEWS

### GE Aviation powers first flight of Boeing 777X

Boeing completed its first flight of the 777X powered by two GE9X engines on January 25. GE Aviation has been designing and testing the GE9X since 2013, having conducted 72 test flights of the GE9X totaling more than 400 hours on its Boeing 747 flying test bed in Victorville, CA. To date, the GE9X program has completed more than 4,100 hours of ground and air testing, as well as 6,500 cycles. GE Aviation is wrapping up certification testing for the GE9X and expects the engine to be certified later this year. Eight GE9X engines and two spares have been produced to support the Boeing test program. Engines for the first three aircraft have been delivered and the balance will be in Seattle in the coming weeks.

### NASA places order for three Airbus H135 helicopters

The National Aeronautics and Space Administration (NASA) has placed an order for three H135 helicopters, marking the first-ever partnership between the U.S. space program and Airbus Helicopters. The order was announced January 29, at the Airbus

### WIZZ Air selects Pratt & Whitney GTF™ engines to power additional 166 Airbus A320neo Family aircraft



WIZZ Air orders Pratt & Whitney GTF™ engines to power additional 166 Airbus A320neo Family aircraft

Photo: P&W

WIZZ Air Hungary (WIZZ Air) has selected Pratt & Whitney GTF™ engines to power an order of 166 Airbus A320neo Family aircraft. The order consists of 90 aircraft from WIZZ Air's 2016 selection, an additional 56 Airbus A320neo Family aircraft and 20 Airbus A321XLR aircraft. This brings WIZZ Air's combined total order to 276 GTF-powered A320neo Family aircraft. Pratt & Whitney will also provide WIZZ Air with engine maintenance through a long-term EngineWise® Comprehensive service agreement. WIZZ Air, the largest low-cost airline in Central and Eastern Europe and an affiliate of Indigo Partners, will be one of the largest A320neo Family aircraft operators in Europe. WIZZ Air currently operates a fleet of 113 V2500®-powered A320neo Family aircraft and seven GTF-powered A321neo aircraft and has exclusively opted for Pratt & Whitney engines since its founding in 2003.

# MRO

AVI TRADER  
publications

*Followed by Thousands of Industry Professionals*

e-magazine

Industry insight, analysis and news

**Free subscription** straight to your inbox every month

[Get latest edition>>](#)

Contact us about Advertising Opportunities

Jenny Vogel, Sales Director  
jenny.vogel@avitrader.com

+49 (0)8761 346007



# WHY OVERHAUL WHEN YOU CAN EXCHANGE?

It costs millions to overhaul an engine.  
Swap your engine with a reliable one from our  
nearly \$2 billion portfolio instead.

SAVE TIME.  
REDUCE COSTS.  
ELIMINATE RISK!

You can count on Willis Lease, the pioneer in comprehensive,  
customer-driven solutions, to meet all your spare engine needs.



**Willis Lease Finance Corporation**  
*Power to Spare – Worldwide®*

[leasing@willislease.com](mailto:leasing@willislease.com) | +1 561.349.8950 | [www.willislease.com](http://www.willislease.com)



## AIRCRAFT & ENGINE NEWS

booth at the Heli Expo Trade show in Anaheim, California. The H135s will be operated out of the Kennedy Space Center in Florida for a variety of missions, including rocket launches, security, emergency medical services, and passenger transport. Two of the helicopters are scheduled for delivery later this summer, with a third planned for early 2021.

### BOC Aviation reports operational data for the fourth-quarter and full-year 2019

BOC Aviation has closed 2019 with another year of strong performance during which it took delivery of 54 new aircraft, including its first Airbus A330neo aircraft, and added another 37 delivery positions to its order book, reflecting disciplined investment in popular and in-demand new-technology aircraft, building a strong foundation for future growth. As part of its active portfolio management strategy, BOC Aviation successfully concluded a portfolio sale of all 17 aircraft with leases attached in 2019, bringing the total fleet size to 523 aircraft as at year end. The fleet has an average age of 3.1 years and long average remaining lease term of 8.4 years. BOC Aviation has had a good start into 2020 with the announcement of an order for 20 new Airbus A320neo Family aircraft on January 7, as it focuses on building its balance sheet. During the fourth quarter of 2019, BOC Aviation took delivery of 20 aircraft (including six acquired by airline customers on delivery) and 54 in 2019 (including 12 acquired by airline customers on delivery). BOC signed 37 lease commitments in the fourth quarter of 2019, bringing the total for 2019 to 87. The company sold six owned aircraft in the fourth quarter of 2019, which brought the total number of owned aircraft sold during the year to 28. Additionally, two managed aircraft were sold in 2019 on behalf of third-party investors. BOC Aviation has a customer base of 93 airlines in 41 countries and regions in owned and managed portfolios.

### DRF Luftrettung expands H145 and H135 helicopter fleet



DRF Luftrettung

Photo: Airbus Helicopters

fleet of the German Helicopter Emergency Medical Services (HEMS) to 35 helicopters. The contract, booked in 2019, also renews DRF's HCare smart contract, a full support parts-by-the-hour contract for DRF's entire fleet for the next eight years. "Our mission at DRF Luftrettung is to continuously improve medical care for people in need. For this, it is essential for us, and our patients, to operate the most modern helicopters available. This new contract, with the patient at the top of our priorities, launches the last phase of our fleet renewal. The new H145 helps us, thanks to the increased useful load, to improve our services," said Dr. Krystian Pracz, CEO of DRF Luftrettung.

Airbus Helicopters and DRF Luftrettung (DRF) have signed a contract for the purchase of 15 new H145s, three H135s and the retrofit of DRF's current 20 H145s to the five-bladed version. This will bring the H145

### Metro Aviation signs order for 12 additional EC145e helicopters

Louisiana-based Metro Aviation has ordered an additional 12 new EC145e helicopters from Airbus, announced at the Heli Expo trade show in Anaheim, California. This deal brings Metro Aviation's total number of ordered EC145e helicopters to 43. Metro Aviation operates air medical helicopters and airplanes for healthcare providers and is a global leader



Metro Aviation has ordered an additional 12 new EC145e helicopters Photo: Airbus

for multi-mission helicopter customization. Metro was the first customer for the EC145e when Airbus Helicopters launched the simplified, lower-weight variant in 2015. In 2019, Airbus Helicopters delivered the first EC145e, locally produced at its industrial facility in Columbus, Miss. U.S.A., where the remaining EC145e aircraft for Metro will also be produced.

## BEYOND MRO

CUSTOMIZED MRO SOLUTIONS  
TO KEEP YOU FLYING

StandardAero

www.standardaero.com



RB211-535



CF34-3/-6



PW100



JT15D



RE220



CFM56-7B



AL 3007



PW150A



PT6A



GTCP36



APS2300



## MRO & PRODUCTION NEWS

### AeroControlex names AAR exclusive global distributor for APU lube pump products

AAR has signed a multiyear agreement with AeroControlex, under which AAR will be exclusively stocking and selling auxiliary power unit (APU) lube pumps and all related piece-part components worldwide. "This is a meaningful growth opportunity for our business serving as a value-added extension of an original equipment manufacturer," said Darren Spiegel, AAR Vice President and General Manager of OEM Solutions – Commercial.

### HAECO ITM extends inventory technical management support to NokScoot's Boeing 777 fleet

HAECO ITM, a member of the HAECO Group, has reached an agreement with NokScoot Airlines (NokScoot) to provide inventory technical management support for the company's six Boeing 777 aircraft. The scope of the agreement includes access to HAECO ITM's component pool, component exchange, repair management, engineering and AOG support in accordance with its guaranteed delivery time and service level. NokScoot will benefit from a tailored inventory management program, allowing it to focus on its operations, thanks to HAECO ITM's commitment to providing customized and cost-effective solutions.

### AJW appoints TTC as sole sales representative in Japan

AJW Group is expanding its presence in the Japanese aviation market with the appointment of Toyota Tsusho Corporation (TTC) as its sole sales representative. This partnership will enable AJW Group to expand and increase its capacity to support Japanese customers. TTC will act as a partner to supply aircraft components, support contracted services, including PBH, engine services, and deliver maintenance, repair and overhaul (MRO) related activities in Japan. This partnership is also aligned with AJW Technique's growth strategy and bolsters the Group's growing presence in the Japanese aviation market. AJW Technique was the first independent component MRO to achieve Japan Civil Aviation Bureau (JCAB) approval under the Bilateral Aviation Safety Agreement (BASA) between Transport Canada (TCCA) and JCAB. This was awarded on January 24, 2019 and has made AJW Technique the best fit for the Japanese MRO market in compliance with JCAB regulations. This partnership will enable AJW and TTC to establish a new global MRO

### Boeing's 777X jet finally takes to the skies for successful maiden flight



Boeing's 777X makes its first flight at Paine Field in Everett, Washington

Photo: Boeing

A year later than projected, Boeing's 777X twin-engine wide-body jetliner has finally taken to the skies after two further days of delays owing to bad weather conditions. This is the first new jet the American planemaker has produced since the ill-fated 737 MAX and took to the skies and all eyes will now be on the FAA and the certification process for the 777X after accusations of an all-too-cozy relationship between Boeing and the FAA. Having taken off from its assembly line north of Seattle approximately four hours earlier, the jet touched down at Boeing Field at 2 p.m. local time. The 777X is the larger of two 777 variants being produced and will officially be called the 777-9. It will compete against the Airbus A350-1000, 360-passenger wide-body jet, and will be the largest jet in operation when it enters into service next year with an extended wingspan of 251' 9" (76.7m) and a length of 229' (68.9m). To enable it to be parked in bays for narrow predecessors and to also increase fuel efficiency, the carbon-fiber wings of the 777X have a foldable tip, allowing the wingspan to be reduced by approximately 23' to 212' 8" (64.8m). The jet is powered by two of General Electric's largest jet engines, the GE9X high-bypass turbofan that is so big that for testing, it had to be mounted on a 747-400 Jumbo. The engine has been described as being "wide enough to swallow a 737 MAX fuselage."

### CAVU Aerospace receives FAA approval for CAVU Component Repair in Mesa, Arizona



CAVU employees presenting FAA certificate SR6R638D

Photo: CAVU

CAVU Aerospace has received FAA Air Agency Certificate, SR6R638D, for its CAVU Component Repair station based in Mesa, Arizona. With this approval, CAVU Component Repair will have the capability to repair airframe components, accessories and landing gear in accordance with its operation specifications. CAVU's 80,000 ft<sup>2</sup> facility is equipped with state-of-the-art tooling and machinery. It will offer quality repair on flight controls, flap tracks, flap carriages, and landing gear for most Boeing, Airbus, Bombardier and Embraer aircraft types. Its repair capabilities will be expanded in the future.



## MRO & PRODUCTION NEWS

network hub whilst supporting the expansion of the Japanese aviation market. It allows AJW to leverage TTC's global network and logistics know-how to expand its presence in Japan.

### WeatherTech becomes launch customer for Advanced Autopilot System for H125/AS350

StandardAero and Thales have announced WeatherTech as the launch customer for their advanced 4-axis Compact Autopilot System for the Airbus Helicopters H125/AS350 platform. Derived from certified transport category solutions, the Lightweight Compact Autopilot brings advanced, state-of-the-art 4-axis capability, performance and enhanced levels of safety to the light helicopter market, while eliminating the need for a traditional dedicated flight control computer. David MacNeil, Founder and CEO of the well-known automotive accessories company WeatherTech, has decided once again to confer his aircraft upgrades to StandardAero by selecting Thales Compact autopilot for his fleet. "I have been pleased with the support received from StandardAero in modifying our H125 helicopters, and as we look to make additional safety and avionics upgrades to enhance these machines, the decision to include the Thales unique Compact Autopilot technology was an easy one to make," said MacNeil.

### ST Engineering secures more than SG\$1.5 billion of new contracts in fourth-quarter 2019

Singapore Technologies Engineering Ltd (ST Engineering), a global technology, defense and engineering group has released that for the fourth quarter of 2019, its business sectors secured more than SG\$1.5 billion of new contracts, bringing the full year 2019 contract value to SG\$7 billion. Including the contract for one unit of Polar Security Cutter, the Group's total announced contract value for 2019 was about SG\$8 billion. About SG\$1.1 billion of new contracts were secured by the Group's Aerospace sector, across its spectrum of aviation manufacturing and MRO service businesses including nacelle component, floor panel manufacturing, as well as airframe and engine maintenance services. This brings its total contract wins in 2019 to about SG\$4.2 billion, compared to SG\$2.1 billion the year before. New MRO contracts included heavy maintenance service for a line of Boeing 757s for an America airline from the second half of 2020;

### Jazeera Airways signs US\$1.3 billion LEAP-1A engine services agreement



Jazeera Airways

Photo: AirTeamImages

Jazeera Airways has signed a long-term Rate Per Flight Hour (RPFH) agreement with CFM International to support the LEAP-1A engines that power the airline's fleet of 20 Airbus A320neo aircraft. The agreement, which is valued at approximately US\$1.3 billion U.S. at list price, also covers five spare engines. RPFH agreements are part of CFM's portfolio of flexible engine service support packages. Under the terms of the agreement, CFM Services guarantees maintenance costs for Jazeera's LEAP-1A engines on a dollar per engine-flight-hour basis. Jazeera Airways became the first LEAP-1A-powered A320neo operator in the Middle East in May 2018 and currently operates four A320neo aircraft. The fleet has since logged more than 6,000 flight hours. The airline also operates nine CFM56-5B-powered A320ceo aircraft.

### Airbus Helicopters adds 250 more helicopters to global support contracts



Boston Med Flight has signed HCare Smart support contract with Airbus Helicopters

Photo: Airbus Helicopters

Airbus Helicopters added 250 helicopters to HCare Smart and Infinite contracts in 2019, increasing to 2,250 the number of aircraft now covered by a global HCare material management contract. This means 19% of Airbus Helicopters' worldwide fleet is now covered by HCare. New aircraft added at Heli-Expo 2020, all with HCare Smart, were from Papillon (21 H130s) and Heliportugal (9 H125s). Papillon's entire fleet of H130s will now be covered by HCare. Also at the show, DRF Luftrettung signed an eight-year extension of HCare Smart for its entire fleet of nearly 60 helicopters. Other customers added in 2019 include PHI Health (H125s), Boston Med Flight (HCare Smart), Superior Helicopters (HCare Infinite), and STARS air ambulance (HCare Smart), among others. In North America alone, 78 helicopters joined HCare last year, and of the 58 H225s repurposed in 2019, more than 75% of those already in operation are covered by HCare.

## MRO & PRODUCTION NEWS

transition checks for a freight operator's MD-11s; and landing gear overhaul service for Japanese domestic airline, Solaseed Air's Boeing 737-800 fleet over a four-year period. The MRO contracts also covered a number of maintenance-by-the-hour (MBHTM) agreements, including the 15-year engine MBHTM program to support Japan Transocean Air's Boeing 737NG fleet, as announced in November 2019. Another SG\$449 million were secured by the Electronics sector for products and solutions in smart mobility, satellite communications (satcom), Internet of Things (IoT), cybersecurity, public safety and security, and defense. This brings its total contract wins in 2019 to about SG\$2.8 billion, compared to about SG\$2.2 billion the year before. US\$1.00 = SG\$1.36 at time of publication.)

### Spirit AeroSystems reaches 737 MAX production agreement with Boeing

Spirit AeroSystems has reached an agreement with Boeing relating to the 737 MAX production rate. Under the agreement, Spirit will restart production slowly, ramping up deliveries throughout the year to reach a total of 216 MAX shipsets delivered to Boeing in 2020. Spirit does not expect to achieve a production rate of 52 shipsets per month until late 2022. The parties are continuing to negotiate other terms. The rate agreement is based on several assumptions including Boeing's expected production rate and the successful return of the 737 MAX to service. As previously disclosed, the 737 MAX contractual agreement is a requirement contract between Boeing and Spirit and the rate may change at any time.

### Helicopter lessor LCI seals new partnerships with two financial institutions



AW169 helicopter

Photo: Leonardo

Helicopter lessor LCI, the aviation division of the Libra Group, has sealed new partnerships with two leading financial institutions as it continues to grow its fleet. The lessor has just taken delivery of a Leonardo AW169 helicopter with financing arranged from new partner, Investec. The state-of-the-art aircraft is being placed with a leading European provider of B2B helicopter services on a long-term lease. LCI has also concluded an asset-backed financing arrangement for one of its fleet of Leonardo AW189 helicopters in a transaction with new financial partner Grupo Santander for an aircraft valued at over US\$15 million. The aircraft is currently on a long-term lease to a European operator. This start to the new decade follows 2019 in which LCI concluded over US\$400 million of financing and refinancing arrangements. LCI's fleet now comprises of approximately US\$1 billion of assets in service, on order and under management, focused on the latest technology medium and super medium helicopters manufactured by leading helicopter OEMs including Leonardo, Airbus and Sikorsky.



**everestevents**  
Aviation Training & Events

## OPERATING LEASE & AVIATION FINANCE SEMINAR

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

How to Structure, Administer & Finance an Operating Lease

[www.everestevents.co.uk](http://www.everestevents.co.uk)

Everest Events  
 @everestevents  
 Everest Events



### Avia Solutions Group to acquire Bluebird Nordic

On January 24, Avia Solutions Group signed an agreement with the BB Holding ehf., advised by Barons Capital Partners, to acquire 100% of the shareholdings of Bluebird Nordic. Gediminas Ziemelis, Founder and Chairman of the Board of Directors of Avia Solutions Group expressed his contentment, "I am utterly pleased to have had an opportunity to acquire such a competent and reputable company. With this new acquisition, Avia Solutions Group steps into the narrow-body ACMI cargo business. "Cargo-airline Bluebird Nordic, headquartered in Iceland, uses a fleet of six Boeing 737 freighters – one Boeing 737-300 and five Boeing 737-400s, and operates scheduled as well as charter flights under its own brand. The airline also offers cargo export and import services from and to Iceland, serving more than 100 locations worldwide. As a part of Avia Solutions Group, Bluebird Nordic is expected to develop further, expanding its existing service portfolio and improving its operation.



Gediminas Ziemelis, Chairman of the Board of Avia Solutions Group

Photo: Avia Solutions Group

### Leonardo buys 100% of Swiss helicopter company Kopter from Lynwood



SH09

Photo: Kopter

Leonardo has signed a contract with Lynwood (Schweiz) AG to acquire 100% of Kopter Group AG (Kopter). This move allows Leonardo to further strengthen its worldwide leadership and position in the rotorcraft sector; leveraging innovation, new capabilities and engineering skills which have been developed by the young, agile Swiss Company. Kopter's SH09, a new single-engine helicopter, is a perfect fit for Leonardo's state-of-the-art product range offering opportunities for future technological developments. The Swiss company's competencies will boost future developments towards more disruptive technologies, mission capabilities and performances, including innovative hybrid/electrical propulsion solutions. This acquisition will replace the planned investment aimed at the development of a new single-engine helicopter. Within the Helicopter Division of Leonardo, Kopter will act

as an autonomous legal entity and competence center working in coordination with Leonardo. The purchase price, on a cash and debt-free basis, consists of a US\$185 million fixed component plus an earn-out mechanism linked to certain milestones over the life of the program, starting from 2022. The closing of the transaction is subject to certain conditions and is expected to take place during the first quarter of 2020.

**BAA Training**, one of the top-three biggest independent aviation training centers in Europe, will expand further into Spain. BAA Training has chosen the location and has started the establishment of a training center near Barcelona–El Prat Josep Tarradellas Airport. By establishing **BAA Training Spain**, the company is to open a 5300 m<sup>2</sup> modern training center with the brand-new training equipment, classrooms, briefing rooms and a luxury lounge. According to BAA Training representatives, BAA Training Spain is set to operate seven full-flight simulators by 2023, becoming the biggest training center in Southern Europe. As the building reconstruction work is already underway, the first two full-flight simulators are already scheduled for 2020. Airbus' A320ceo full-flight simulator is bound to be ready for training in August, while the second one, for the Boeing 737NG, is planned to start operation in September. With all seven simulators in operation, BAA Training Spain will be ready to accommodate the needs of the European market with more than 51 thousand flight training hours and provide recurrent pilot training for approximately 6,000 pilots, yearly. Even though the training center will be equipped with full-flight simulators and flight-training devices suitable for pilot type rating qualification, pilot recurrent training and wet and dry FFS lease services, it also opens a possibility to provide the market with a full scope of pilot training in Spain.



A320 full flight simulator  
Photo: BAA Training

## FINANCIAL NEWS

### Boeing posts annual loss as 737 MAX costs approach US\$19 billion

Boeing has posted its first annual loss since 1997 as originally forecast losses of US\$8 billion resulting from the grounding of its 737 MAX jet are now approaching US\$19 billion, a sum which does not include any likely compensation payout to the families of the 346 victims of both fatal crashes involving the jet. The North American planemaker had originally anticipated it would return to the skies with full FAA approval by the end of last year, but that has now been rescheduled for June this year. Current costs incurred extend to US\$14.6 billion and Boeing has adopted a cautious tone through its indication that a further US\$4 billion in charges will likely be incurred in 2020. There is also the possibility Boeing will have to face a number of U.S criminal investigations into 737 MAX-related. To make matters worse, Boeing is also cutting back further on its production of its current principal source of airplane revenue, the 787 Dreamliner. In October last year it announced it would be reducing production levels from 14 units to 12 units per month in late 2020, which will now fall to 10 units per month in the early part of 2021. Boeing has reported negative free cash flow of US\$2.67 billion for the fourth quarter of 2019, which ended on December 31, as opposed to a positive free cash flow of US\$2.45 billion for the same quarter in 2018.

### Textron reports fourth-quarter 2019 results

Revenues at Textron Aviation of US\$1.7 billion were up 11%, primarily due to higher volume and mix, largely reflecting the Longitude's entry into service. Textron Aviation delivered 71 jets, up from 63 last year, and 59 commercial turboprops, down from 67 last year. Segment profit was US\$134 million in the fourth quarter, down from US\$170 million a year ago, primarily due to the mix of products sold and an unfavorable impact from inflation, net of pricing. Textron Aviation backlog at the end of the fourth quarter was US\$1.7 billion. Bell revenues were US\$961 million, up 16% from US\$827 million last year, primarily on higher commercial volume. Bell delivered 76 commercial helicopters in the quarter, up from 46 last year. Segment profit of US\$118 million was up US\$10 million, largely on the higher commercial volume. Bell backlog at the end of the fourth quarter was US\$6.9 billion. Revenues at Textron Systems were US\$399 million, up 16% from US\$345 million last year, primarily due to higher volume. Segment profit of US\$33 million was down from US\$37 million last year, due to unfavorable performance, partially offset by higher volume and mix. Textron Systems' backlog at the end of the fourth quarter was US\$1.2 billion.



Bell 407 helicopter

Photo: Astronics

**Astronics Corporation** (Astronics) has announced that an amended Supplemental Type Certificate (STC) has been approved by **Transport Canada Civil Aviation** (TCCA) for its Max-Viz 1400 and 1200 Enhanced Vision Systems (EVS) on Bell 407 helicopters. The company expects that the **U.S. Federal Aviation Administration** (FAA) validation will follow within six months. Astronics obtained the approval for its Max-Viz 1400 and 1200 EVS in cooperation with **AVIO** dg in Calgary, Canada. The first installation of the certified Max-Viz 1400 equipment is on a Bell 407GX1, for a VIP client, by **Wysong Enterprises, Inc.**



SAS

Photo: Open Airlines

**Scandinavian Airlines Ireland**, the Irish subsidiary of **Scandinavian Airlines** (SAS), announced the successful implementation of OpenAirlines' SkyBreathe® eco-flying solution to pursue its commitment to sustainable development. SkyBreathe® Fuel Efficiency is an innovative solution using big data algorithms, artificial intelligence, and machine learning to automatically analyze billions of data points from flight recorders. By combining them with data from the actual flight conditions (payload, weather conditions, flight path, ATC constraints, etc.), the software identifies the most relevant saving opportunities. Based on this information, SAS Ireland benefits from an accurate and deep understanding of fuel usage through all phases of flight to implement the most efficient procedures without compromising safety. SAS Ireland joins a large community of airlines adopting SkyBreathe® to improve their fuel efficiency, including **Norwegian, Malaysia Airlines, Transavia** and **Atlas Air**.



## FINANCIAL NEWS

### Boeing supplier CAM being sold to Stanley Black & Decker for US\$1.5 billion

North American toolmaker Stanley Black & Decker has announced it is to acquire Consolidated Aerospace Manufacturing LLC (CAM) for up to US\$1.5 billion. CAM is a major supplier of Boeing Co and approximately US\$200 million of the purchase price is contingent on Boeing obtaining certification for the still-grounded 737 MAX from the U.S. Federal Aviation Administration enabling it to return to service, and Boeing production figures for the beleaguered jet reaching an agreed level. CAM makes fasteners and other components for the aerospace industry and is presently owned by the investment firm Tinicum. "Growing and diversifying our industrial business through M&A is a key priority for the company and a focus of our strategic capital deployment," Stanley Black & Decker Chief Executive James Lorie said in the statement.

## INFORMATION TECHNOLOGY

**Amadeus**, a travel technology and service provider for airlines and the global travel industry, is a new business partner of **BARIG** (Board of Airline Representatives in Germany). Through this agreement, Amadeus enters BARIG's forum for communication, joining more than 100 national and international member airlines. "We welcome Amadeus as a new business partner," states BARIG Secretary General Michael Hoppe. "Technology is one of the vital components for sustainable success today, as the current development of modern innovations in distribution and the IATA standard NDC prove. We are pleased to strengthen the BARIG business partner segment 'Technology & Innovation' with Amadeus and, thus, to considerably enhance our expertise in this area." Amadeus operates globally in over 190 markets and, in constant cooperation with the travel industry, develops professional IT solutions for airlines among others. In 2018 alone, Amadeus processed more than 580 million bookings for over 1.8 billion airline customers.

Pakistani start-up **K2 Airways** has signed an agreement for **Rusada's** MRO and Flight Operations software, ENVISION. K2 Airways will begin scheduled passenger flights later this year from its base at Karachi's Jinnah International Airport. It will serve numerous destinations across Pakistan including Islamabad, Skardu and Chitral. The airline also plans to fly to international destinations in the near future.



Photo: Air Navigation Solutions

U.K. air traffic management provider **Air Navigation Solutions** (ANS), has signed a contract with SITT, supplier of voice communication systems (VCS), to enhance the air traffic management infrastructure at Edinburgh and Gatwick Airports. ANS is deploying SITT's MULTIFONO® M800IP® Voice Communication and Control Systems as the VCS at both of ANS' U.K. airport operations, and with it upgrading the air traffic control (ATC) infrastructure at Gatwick Airport and Edinburgh, Scotland, airport. SITT is a leading supplier of voice communication systems worldwide, with the most technologically advanced architecture, fully compliant to the latest international standards. SITT's global presence includes a large base of installed VCS and ancillary equipment with services in military and civilian air traffic control, as well as public and private strategic emergency services, police, fire and ambulance services and control room management. The proven MULTIFONO® M800IP® systems have undergone countless interoperability tests around the globe and are installed at many major airports worldwide. The system offers advanced interfacing capabilities, reliability and flexibility. The primary VCS systems are equipped with interface units to connect digital and analog radios and telephones and convert them into standard ED 137 VOIP links.



Qantas pilot academy in Toowoomba

Photo: Qantas

Many of the next generation pilots will learn to fly at the **Qantas Group's** new Pilot Academy in Toowoomba, which was officially opened on January 29. The Pilot Academy will have the capacity to train up to 250 pilots each year to build a long-term talent pipeline for Qantas, **Jetstar** and **QantasLink** and help the broader industry meet the increasing need for skilled aviators. **Boeing** estimates more than 800,000 more pilots will be required globally over the next 20 years with around one-third of them in the Asia Pacific. The training facilities comprise a 1500 m<sup>2</sup> hangar, four flight training simulators, classrooms as well as purpose-built pre-flight briefing and flight scheduling areas. The students are learning to fly in single-engine Diamond DA40 and multi-engine DA42 aircraft. The Academy also aims to increase the proportion of female, Aboriginal and Torres Strait Islander pilots in the industry.

## INFORMATION TECHNOLOGY

Rusada will begin implementing six of ENVISION's modules immediately so that the system is fully live in time for the airline's maiden flight. Modules selected include Fleet Management, Line Maintenance, Flight Operations and Human Resources.

## OTHER NEWS

**Boeing** has announced that it will retire the **Aviall** brand name. Parts, equipment and supply chain solutions previously sold by Aviall will be offered directly by Boeing through its portfolio of aerospace aftermarket supply chain service offerings. The change is part of the company's plan to integrate and align its businesses under the Boeing brand and systems. Aviall and its predecessor companies have provided aftermarket parts, equipment and services for the aviation industry since 1932. The company was acquired by Boeing in 2006 and has operated as part of Boeing's supply chain capability since 2017.

The **International Air Transport Association** (IATA) has jointly announced it will be teaming up with **Xpansiv CBL Holding Group** (XCHG), a commodity exchange company, to provide a common marketplace called **The Aviation Carbon Exchange**, for eligible emission units. While passenger growth is predicted to grow, airlines are aiming to cap CO2 emissions at 2020 levels through adopting a global carbon offsetting plan. The plan, known as Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA), is the first of its kind for a single industry in response to climate change. "We expect airlines from all over the world to participate," XCHG President and Chief Operating Officer John Melby, who has worked with individual airlines and carbon markets for some time, told Reuters news agency. Currently commercial aviation is responsible for 2% of carbon emissions across the world, but airlines are taking proactive measures to reduce their carbon footprint by exchanging conventional jet fuel for biofuels, though these are both costly and currently in short supply. Thus, airlines will be able to offset their carbon emissions by purchasing carbon credits from designated environmental projects around the world, which will be available through the exchange, which enters a pilot phase in the current quarter. It will be powered by XCHG's CBL Markets with real-time data, and airlines will pay a fee for each transaction. CORSIA is expected to provide more than US\$40 billion in funding for climate projects and offset 2.6 billion tons of CO2 emissions between 2021 and 2035.



CAS Global Electric Motorcar (GEM)

Photo: CAS

**Certified Aviation Services** (CAS) is supporting **JetBlue** in its advancement of being the first carbon-neutral U.S. Airline. In its efforts, CAS supplanted four carbon vehicles with electric-powered vehicles, with three more in the pipeline. CAS designated a four-seater **Global Electric Motorcar** (GEM) to be solely utilized by its interior crew when servicing JetBlue's fleet. The four-seater GEM features an attached hitch for secure transportation of equipment. As climate change continues to expand, the aviation industry's role in it raises concern. CAS is committed to reducing that concern by implementing more electric cars throughout its 19 line stations across America.



Picture of Drone Guard at airport

Photo: IAI

**ELTA Systems**, a subsidiary of **Israel Aerospace Industries**, has announced the successful trialing of its anti-drone system at a number of airports in Europe, Latin America and Southeast Asia. The demand for anti-drone solutions has increased dramatically since an incident in December 2018 when over 1,000 flights were canceled at Gatwick Airport in the U.K. after drone sightings halted all air traffic as a safety precaution over a three-day period, affecting over 140,000 passengers. Drone Guard is a drone detection, tracking, identification and disruption system which, according to the manufacturer, "features an integrated multi-layered sensor system that includes: 3D X-band radar that detects and tracks all types of drones; dedicated COMINT system that classifies the drone by its transmission (using the information to verify the target and reduce false detection rates); an EO/IR camera used to classify the detected object; and a Jammer that neutralizes and intercepts the object." The system has been specifically configured to operate in an airport environment and has been successfully and effectively demonstrated to a number of airport operators, proving its effectiveness as well as the capacity to operate the system without affecting an airport's normal operating procedures. The Drone Guard has a major advantage as it is suitable to be used as a drone counter-measure at airports and populated areas through its ability to operate it in tandem with radio transmitting systems such as radars, communication systems, and others within an airport's complex electromagnetic spectrum. The Drone Guard radar operates in X-Band, which does not interfere with airport radars that typically operate in S-Band. In addition, according to ELTA, Drone Guard's advanced mitigation measures can neutralize a threat with minimal interference to the airport's surroundings.



## OTHER NEWS

**Brazil's Administrative Council of Economic Defense (CADE)** has approved **Boeing's** acquisition of Brazilian planemaker **Embraer's** commercial aviation division without placing any restrictions on the deal, though CAD's principal administration council could still reconsider the situation and settle the case through a vote. It follows clearance from jurisdictions such as the USA, China, Japan, South Africa, Montenegro, Colombia, and Kenya so now, Boeing only has to wait for approval from the European Commission. After halting the process in November 2019, the European body resumed its work on the probe on January 6, 2020, setting April 30 as the deadline for the decision. However, on January 21, 2020, the investigation was suspended once again. The Boeing-Embraer joint venture has two elements to it. One will comprise commercial aircraft and services, with Boeing holding 80% and Embraer 20%. The other joint venture will develop markets for Embraer's C-390 Millennium tactical transport, in which Embraer will own 51% and Boeing 49%.

**Air France** is extending its business class service to customers on its domestic network, on departure from Paris-Charles de Gaulle, Paris-Orly and the French regions, which will also be available on short-haul flights connecting the French regions to international destinations. With this move upmarket, Business class customers with a connection on a long, medium or short-haul flight to or from the French regions will now enjoy seamless Business class service at no extra cost throughout their trip.

## INDUSTRY PEOPLE



(left to right) Ciaran Murphy, Seán Dooley and Declan Lenane

- Eirtech's Technical Operations department combines its CAMO and Technical Services departments to provide a more comprehensive service for its global customers. The company has therefore appointed **Seán Dooley** as Head of Technical Operations within the Eirtech

organization. In this role he will oversee the operation of both the Technical Services and CAMO departments in order to ensure an overall seamless product offering for customers globally. **Declan Lenane** will remain as CAMO Manager and will continue to be responsible for all Part M Technical matters, while **Ciaran Murphy** will remain as Technical Services Manager.



Mark Radford

- Trenchard Aviation Group has appointed **Mark Radford** as its new VP Business Development. With 30 years' experience in the aviation interiors industry, working for both OEMs and part 145 organizations, he has held senior positions covering sales, operations and procurement. His broad range of product knowledge covers seats, lavatories, galleys, monuments, soft furnishings and working parties. Radford joins Trenchard from his most recent position as Sales Director – Western Europe with Iacobucci HF Aerospace SPA where his achievements included winning contracts to provide seating for the first all-electric aircraft prototype and to supply the Iacobucci induction oven for VIP aircraft.

## Recommended Events



+44 (0) 1342 324353  
+44 (0) 7941 969401  
everest@everestevents.co.uk

### OPERATING LEASE & AVIATION FINANCE SEMINAR

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

[Click here for more aviation events](#)

**AviTRADER™**  
publications

AviTrader Publications Corp.

Suite 305, South Tower  
5811 Cooney Road  
Richmond, BC  
Canada V6X 3M1

Publisher

Peter Jorssen  
Tel: +1 604 318 5207

Editor

Heike Tamm  
editor@avitrader.com  
Tel: +34 (0) 971 612 130

Advertising Inquiries and  
Customer Support

Jenny Vogel  
jenny.vogel@avitrader.com  
Tel: + 49 (0) 8761 346 007

For inquiries and comments,  
please email:  
editor@avitrader.com



# THE AIRCRAFT AND ENGINE MARKETPLACE

## Commercial Jet Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
A319-100	DVB Bank	CFM56-5B63	3586	2008	Q3/2020	Lease	Jonathan Louch	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	Q1/2021	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
A320-230	DVB Bank	V2527-A5	4552	2010	Q4/2020	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
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
B777-300ER	DVB Bank	GE90-115B	37705	2009	Q1/2021	Sale / Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449

## 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

*RegionalOne*

Engine Lease Finance



**Aircraft Parts eMarketplace**



Browse Parts from  
over 3,000 Vendors on

**StockMarket.aero**

Visit [www.StockMarket.aero](http://www.StockMarket.aero) to get started ▶

Mobile App Available on iPhone & Android



# 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
<b>AE3007 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(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
<b>CF34 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
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 Poly	bill.poly@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
<b>CF6 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(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
<b>CFM Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(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
(1) CFM56-5B4/3	Now - Lease				
(1) CFM56-5B6/P	Now - Lease				
(1) CFM56-5B4/P	Now - Lease				
(1) CFM56-7B22/3	Now - Lease				
(2) CFM56-7B24E	Now - Lease				
(1) CFM56-7B27	Now - Lease				



**Willis Lease Finance Corporation**  
 Power to Spare – Worldwide®



# 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 - Sale	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>GENx Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) GENx1B74/75 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	Mar 2020 - Lease				
(1) LEAP-1A32	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) LEAP1A-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
(2) PW150A	Now - Sale/Lease/Exch.				
(2) 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 Kryś	rkryś@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
(2) Trent 772B-60	Jul 2020 - Sale / Lease	BBAM	Steve Zissis	info@bbam.com	+1 415 486 6100
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) GTC331-500B, (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
GTC331-500B 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) GTC331-150RJ, (2) GTC331-100M,	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					
GTC331-9A (2), GTC331-9B(2)	Now - Lease	REVIMA APU	Olivier Hy	olivier.hy@revima-apu.com	+33(0)235563515
GTC331-200, GTC331-250	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) GTC331-9B	Now - Sale / Lease	DASI	Chris Glascock	Chris.Glascock@dasi.com	+1 954-801-3592
(multiple) APS2300, (1) GTC331-350C	Now - Sale / Lease	AirFin	Nick Filce	Nick.Filce@aerfin.com	+44 7770 618 791
(1) GTC331-300A, (1) GTC331-9A					
(4) GTC331-9A, (1) GTC331-9B, (2) GTC331-350		GA Telesis		apu@gatelesis.com	+1-954-676-3111
(1) GTC331-200ER, (1) GTC331-550, (1) APS3200					
GTC331-9A, GTC331-9B, GTC331-350C	Now - Sale/Lease/Exch.	Logix Aero	Jean-Christian Morin	jcmorin@logix.aero	+33.6.4782.4262
GTC331-500B, GTC331-200/250, APS5000			Rich Lewsley	rlsley@logix.aero	+1 602 517 8210
APS3200, APS2300					
(1) APU GTC331-500	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