

## Weekly Aviation Headline News

### WORLD NEWS

#### Jettainer and WestJet Airlines extend cooperation

Canadian carrier WestJet and Jettainer are continuing their long-term partnership and Jettainer will thus continue to manage and maintain WestJet's ULD fleet over the next five years. The contract was extended prematurely two years before expiration. The number of containers and pallets to be controlled has increased from around 350 to currently 2,000 units. WestJet currently operates 120 Boeing 737 aircraft, four Boeing 767-300, and recently introduced 787s.

#### ERA welcomes new EU-wide rules on drones

The ERA said it is pleased to welcome the news of new EU-wide rules on drones published on 11 June 2019. Montserrat Barriga, Director General, ERA, says: "ERA has openly called for more robust and harmonised EU-wide safety regulations in the past and this new common set of rules is a great step forward for Europe in ensuring safe and secure skies for all member states. As the first region in the world to have a comprehensive set of rules, we can be proud of the unity and strength this represents."

#### IBA Group predicts order slowdown in Paris

Data and aviation intelligence specialists IBA Group predicts that Paris Airshow orders could be as low as half of 2018's yield. Dr Stuart Hatcher, Chief Operating Officer, MD-Aviation Services for IBA predicts that firm and MoU orders combined could be as low as 450, Airbus will potentially launch the A321XLR, and Boeing will not launch the NMA but will set out the re-entry programme of the 737 MAX in more detail.



The MRJ series is now the SpaceJet programme of regional aircraft.

Photo: Mitsubishi Aircraft Corp.

### Mitsubishi rebrands

#### Introducing the SpaceJet family

Mitsubishi Aircraft Corporation has finally announced an update to its regional aircraft programme. Its MRJ series is now to be called the Mitsubishi SpaceJet family of aircraft. SpaceJet is the commercial name for the product family that includes the SpaceJet M90 (previously known by the developmental designation of MRJ90) and a new member, the SpaceJet M100, of which the company says sets a new standard in regional air travel.

"The Mitsubishi SpaceJet family represents our plan to redefine the business of regional air travel," said

Hisakazu Mizutani, President, Mitsubishi Aircraft Corporation. "This is a commercial segment where we see great opportunity. As we prepare for entry-into-service for the SpaceJet M90, we are also announcing the SpaceJet M100 – the

change that will allow airlines to enhance the satisfaction of their passengers and significantly improve their business performance."

Having evolved from a concept study for the now retired MRJ70 designation, the SpaceJet M100 is designed to adapt to specific market needs while maintaining strength of performance, according to the company. The Japanese OEM says the SpaceJet M100 is perfectly matched to the United States and global markets alike. In the U.S. market, the aircraft is optimised to

**"This is a commercial segment where we see great opportunity."**

*Hisakazu Mizutani, President, Mitsubishi Aircraft Corporation*

result of our research and development during the past few years and the answer to the regional market's current and future needs. These products mark our dedication to a segment in desperate need of

*Continued on page 3*

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be scope clause compliant in the 65-76 seat, three-class cabin configuration. It can also be flexibly configured for other global market needs up to 88 seats single class, with greatly enhanced operating economics throughout the full range of configurations.

In preparation to deliver the SpaceJet M90 in 2020, Mitsubishi Aircraft Corporation has

significantly matured its commercial aircraft capabilities during the past several years. The company has worked closely with governmental partners to establish a certification system for Japan and has begun type certification flight testing in Moses Lake, Washington, U.S. with both the Japan Civil Aviation Bureau (JCAB) and the United States FAA.

On May 10 of this year, the company opened a new U.S. headquarters in Renton, Washington. With the Mitsubishi SpaceJet family, the company says its well positioned to gain a foothold in the regional aircraft market and establish the foundation for a healthy, globally competitive aerospace industry in Japan.

## AIRCRAFT & ENGINE NEWS

### Boeing delivers 56% fewer planes this May

Boeing has delivered 56% fewer airplanes compared to May 2018, citing the continued suspension of the 737 MAX as the main culprit for the low figure. Having delivered 68 planes in May 2018, the U.S. planemaker delivered only 30 last month. For the first five months of 2019 net orders now stand at a total of minus 125. For the same period, Airbus delivered 81 aircraft, an increase of 59% compared to May 2018, making a total of 313 aircraft for the year, up 40% on the same period in 2018.

### Airbus engineers develop scale-model aeroplane with first in-flight, flapping wing-tips

Airbus engineers have developed a scale-model aeroplane with the first in-flight, flapping wing-tips that could revolutionise aircraft wing-design. Airbus has drawn on nature to develop its 'semi-aeroelastic hinge' concept to reduce drag and overall wing weight, while combating the effects of turbulence and wind gusts. Known as AlbatrossOne, the remote-controlled aircraft has already taken its first flights to prove the concept and the team will now conduct further testing before the demonstrator, based on the manufac-

### Airbus Helicopters delivers Nakanihon Air Service's 20<sup>th</sup> H135



The 20th H135 for Nakanihon Air Service

Photo: Airbus Helicopters

Nakanihon Air Service's has taken delivery of its 20th H135 from Airbus Helicopters. This new light-twin helicopter will join Nakanihon Air Service's growing fleet of H135s to support emergency medical service (EMS) missions throughout Japan. One of the largest aircraft operators the country, Nakanihon operates 45 Airbus helicopters – about two-thirds of its rotorcraft fleet – for a wide spectrum of activities including EMS, electronic news gathering, as well as passenger and goods transportation. Nakanihon Air Service also operates an Airbus-approved maintenance center for H135 helicopters.

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## AIRCRAFT & ENGINE NEWS

turer's A321 plane, is scaled-up further. The first

test flights of the AlbatrossOne demonstrator, developed by Airbus engineers in Filton, were concluded in February after a 20-month development programme. It has been constructed

from carbonfibre and glassfibre-reinforced polymers, as well as components from additive-layer manufacturing.

### EmbraerX unveils new electric flying vehicle concept

During the Uber Elevate Summit 2019 in Washington, D.C, EmbraerX unveiled a new electric flying vehicle concept. The event convenes a global community of manufacturers, investors, policymakers, and government officials, all working to make the urban aerial ridesharing vision a reality. The aircraft concept, with electric vertical take-off and landing capability, known as eVTOL, is part of the EmbraerX multi-project approach. Embraer's disruptive business subsidiary is working on a collaborative effort to enable and accelerate the urban mobility ecosystem. EmbraerX's human-centric approach has been instrumental in the eVTOL project, focused on user experience and passenger peace of mind, with the goal of making the aircraft easily accessible to every person. This new aircraft concept results from a broad range of tests and simulations, aiming at operational optimization for the urban environment, considering high reliability, low operating costs, a lower noise footprint, fully electric powered and progressively autonomous. EmbraerX is also engaged in a variety of tailored solutions for the ecosystem, including a new business platform named Beacon, designed to foster collaboration and synchronize aviation services companies and professionals in a streamlined and more agile way to keep aircraft flying. Additionally, in partnership with dozens of air traffic controllers, academics, pilots and industry experts, EmbraerX has proposed a very practical, simple and robust urban air space design to allow more aircraft to fly in urban environments.



eVTOL flying over LA

Photo: EmbraerX

### Airbus hands over first A350 XWB to JAL



JAL's first A350 XWB takes off

Photo: Airbus

Airbus has handed over Japan Airlines' (JAL) first A350 XWB at the manufacturer's headquarters in Toulouse, France. This is the first of 31 A350 XWB aircraft ordered, comprising 18 A350-900s and 13 A350-1000s. JAL will initially operate the A350-900 on high-frequency domestic routes, while the larger A350-1000 will fly on the carrier's long-haul international network. The first aircraft will enter service on the airline's Haneda - Fukuoka route at the start of September. JAL's A350-900 is configured in a premium three-class layout, with 12 seats in First Class, 94 in Class J and 263 in Comfort Economy. The ferry flight of the first JAL A350-900 is being performed with a blend of conventional and synthetic fuel, contributing to reduced CO2 emissions.

## MRO & PRODUCTION NEWS

### Locatory.com launches aircraft engine stand leasing for MROs and airlines



Photo: Locatory.com launches new service, engine stands leasing

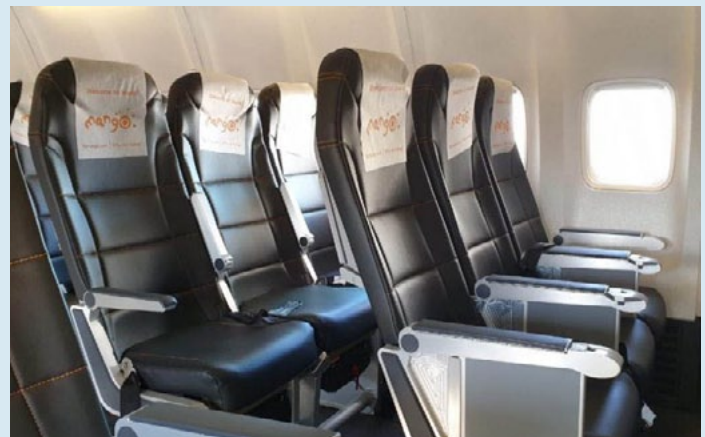
Locatory.com, an aviation IT company primarily acting as an aircraft parts locator, is continuously looking for opportunities in rapidly growing aviation market and frequently suggests new solutions for its clients. The company is spreading its services' portfolio not just with IT solutions but also with actual physical additions that would improve the work for MROs and airlines. Now, Locatory.com introduces its new service – aircraft engine stand leasing. The company starts its service by providing two options – stands for CFM56A/B and CFM56-7 engines. Locatory.com will offer a high-quality equipment lease for a preferred period so that clients all around the world could productively carry out maintenance operations. The engine stands will be checked and certified according to the highest standards and quality requirements. In addition, the company will offer worldwide shipping services for all leasing orders.

### Avtrade secures 16 new component contracts in 2018

Independent aviation services provider, Avtrade, has secured 16 new component contracts in the last year. Airlines across four continents have taken advantage of its contract support which covers the whole spectrum of an extensive service portfolio, including Boeing and Airbus Repair Management, PBH, Leasing and MRO. Avtrade is not only a preferred partner of new customers, but a trusted ally of existing ones, with 25+ contracts renewed or extended by long-standing customers over the same term. In addition, the company has announced that 14 new contracts with maintenance partners have also been agreed, resulting in significant cost and efficiency savings to Avtrade and its customers. These contracts consolidate its reputation for offering fast, flexible support, combined with access to capital and the world's largest available component inventory. Its flexible and bespoke approach provides options such as price per transaction, fixed price, and flight-hourly or -monthly rates. It offers a choice of

### Mango Airlines selects Acro's Series 3 Ultra Economy Class seat

Johannesburg-based, low-cost carrier Mango Airlines has selected once again Acro's Series 3 Ultra Economy Class seat for two B737-800 aircraft. Acro has a long-standing relationship with the airline and this latest order results in the delivery of fourteen shipsets in total since Mango first selected the seat in 2014. Mango operates a fleet of B737 aircraft on domestic routes to major cities including Cape Town, Durban, George, Bloemfontein and Port Elizabeth and regional flights between Johannesburg and Zanzibar.



Mango's Acro Series 3 Ultra seats

Photo: Acro



## MRO & PRODUCTION NEWS

total budgetary control or pay-as-you-go, giving customers complete control with zero operational risk. The company has tripled the aircraft under contract in the last five years.

### Precision Aircraft Solutions completes third B757-200 conversion for Asia Pacific

Precision Aircraft Solutions has completed its third Boeing 757-200 passenger-to-freighter conversion for Asia Pacific Airlines (APA). Conversion of MSN 25140 was completed at Flightstar Aviation in Jacksonville, FL and will be put into service soon after redelivery. The Asia Pacific Airlines 757-200PCF will enter service and support the expanding Pacific Asia network.

### Dallas Airmotive joins MRO Insider's network of maintenance providers

Aviation maintenance quoting website MRO Insider has announced that Dallas Airmotive has joined its list of subscribed marketplace facilities. Dallas Airmotive is the company's second international MRO, with facility locations in North America, South America, Europe, Africa and Asia. Andy Nixon, Co-founder and VP of Sales commented, "Adding Dallas Airmotive to our network allows us to continue to expand the resources available to our growing list of over 600 registered corporate aircraft." He also commented that "Despite having a handful of engine maintenance providers already subscribed, we hope to really begin to ramp up the number of engine and APU work being requested through the site, especially the TFE731, JT15D, and PW300/PW500 lines."

### S7 Technics and Lufthansa Technik jointly present Cyclean®



S7 Technics and LHT jointly held Russia's premiere presentation of Cyclean®

Photo: S7 Technics

Moscow Domodedovo-based S7 Technics and Lufthansa Technik have jointly held Russia's premiere presentation of Cyclean®, an aero engine cleaning process which has been developed by Lufthansa Technik and is now brought to the Russian aviation market by aircraft maintenance, repair and overhaul (MRO) services provider S7 Technics. Lufthansa Technik and S7 Technics signed their agreement for operating Cyclean® in Russia in the summer of 2018 and, after using it for less than 12 months, the Domodedovo station has now completed more than 250 individual engine washes, each one benefiting from the reduced time required for the procedure compared with other engine core cleaning systems. The other big advantage of Cyclean® is the possibility of operating it in outside air temperatures (OATs) as low as minus 10°C. "Before we got Cyclean® it would take between five and six hours to wash a pair of CFM56-5B/7B engines. Now it's down to three hours," reveals Andrey Soldatov, engineer at S7 Technics' engine lifecycle management department. "Another advantage is the lower OATs in which the equipment can be used. The previous technology we used allowed the cleaning procedure with OATs down to minus 5°C, which imposed significant limits in the autumn and spring periods," Soldatov adds. Another big advantage in adopting the Cyclean® system is the corresponding reduction in engine performance deterioration rates, primarily the exhaust gas temperature (EGT) margin, S7 Technics has found.



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## FINANCIAL NEWS

### United Technologies and Raytheon to combine to create defense and aerospace giant

United Technologies Corp and Raytheon Co will merge to create a new company in what is seen as the largest-ever merger in the aerospace sector. Subject to regulatory approval, the deal should go through by the end of the first half of 2020 and will create a company worth an estimated US\$121 billion. It is understood that the merged companies will be renamed Raytheon Technologies Corporation. The merger will create a conglomerate which will span commercial aviation and defense procurement and as United Technologies predominantly provides commercial plane makers with electronics, communications and other equipment and Raytheon primarily supplies the U.S Government with military aircraft and missile equipment, there is little overlap between the two companies, a point that will be emphasized to antitrust regulators. In combining resources, the overall anticipated cost synergies should exceed US\$1 billion by the end of the fourth year. According to Reuters, no shareholder of either company will receive a premium, with United Technologies shareholders holding a 57% stake and Raytheon shareholders holding 43%. United Technologies and Raytheon currently have a market capitalization of \$114 billion and \$52 billion, respectively. Having spent US\$23 billion in its acquisition of Rockwell Collins last year, United Technologies has confirmed it now intends to focus on the aerospace sector and is on course to separate its Carrier air conditioning and Otis lift businesses. The newly created company is expected to return between US\$18 billion and US\$20 billion of capital to shareholders in the first three years after the deal's completion, while it is believed that the new company will also assume approximately US\$26 billion in net debt.

### Héroux-Devtek acquires Québec-based Alta Précision

Landing gear manufacturer Héroux-Devtek has concluded the acquisition of all the outstanding shares of Montreal-based Alta Precision Inc., a manufacturer of high-precision landing gear components. The transaction, which is subject to final purchase price adjustments, is valued at CA\$23 million (US\$17.3 million) and was funded through the Corporation's credit facilities. Héroux-Devtek, with its head office in Longueuil, Québec, has 1,960 employees around the world, of which approximately 800 are located in Québec following the acquisition of Alta Precision Inc. Since its incep-

### AerFin secures EASA Part 145 Certification



AerFin's facility in Caerphilly, South-Wales

Photo: AerFin

AerFin's capabilities expanded to include engine piece part component inspection, testing, certification, borescope inspections and engine module swaps complementing AerFin's existing engine disassembly capabilities.

AerFin has received EASA Part 145 maintenance organization approval certification for its engine MRO services at its 100,000 ft<sup>2</sup> U.K. facility, extending its aftermarket services and move towards enhancing its MRO capability across multiple platforms. The approval will see

### Avianca Argentina follows in its Brazilian counterpart's footsteps and suspends all operations



Avianca Argentina

Photo: AirTeamImages

Only two weeks after another Avianca carrier was forced to suspend operations, Avianca Argentina has obtained governmental approval for a 90-day suspension of all activities while it looks to restructure its business and network model. "With the current aircraft and the competition that exists, it is not viable to continue with the operations," the CEO of the company, Carlos Colunga, told Argentinian news agency Telam. Avianca Argentina operated two ATR 72-600 aircraft on its two domestic routes, Buenos Aires-Mar Del Plata and Buenos Aires-Santa Fe. The 90-day suspension has an option for a further 90-day extension and as it is state approved, this should protect Avianca Argentina from sanctions linked to flight suspensions. The parent company of Avianca Argentina and Avianca Brazil is the Synergy Group, headed by entrepreneur Germán Efromovich. Synergy Group acquired the formerly named Avian Lineas Aereas in 2016 and had intended to operate narrow-body jets on international routes, but this never came to fruition. As part of a regional expansion plan, in 2016 Synergy announced 12 firm orders and six options for the ATR 72-600, of which two to date have been delivered. The six options were canceled in mid-2018. Efromovich and Synergy's woes were compounded last month with Efromovich being ousted as chairman of another Synergy carrier, Columbia's flag-carrying airline, Avianca. Despite being the majority shareholder, Efromovich was replaced by Roberto Kriete, head of Texas-based minority shareholder Kingsland Holding Ltd.



## FINANCIAL NEWS

tion in 1942, Héroux-Devtek has grown from a small repair and overhaul facility to a world-class supplier of landing gear and actuation systems, delivering on major platforms such as the Boeing 777 and 777X. This acquisition, along with those of CESA, Beaver and Tekalia announced over the last year, strengthen its leadership position around the world.

### GTKL Europe closes US\$265 million re-financing

GTKL Europe, an Ireland-based international company engaged in leasing and trading of a wide range of air and sea vehicles, has refinanced three 2015 vintage Boeing 777-300ER aircraft, all subject to long-term leases with Aeroflot. The facility was underwritten by DVB Bank SE, PK AirFinance, a GECAS Company, Credit Agricole CIB, The Korea Development Bank and NEC Capital Solutions Limited. PK AirFinance acted as Agent and Security Trustee of the facility.

### AerCap announces new share repurchase program of US\$200 million

AerCap's Board of Directors have approved a share repurchase program authorizing total repurchases of up to US\$200 million of AerCap ordinary shares through December 31, 2019. Repurchases under the program may be made through open market purchases or privately negotiated transactions in accordance with applicable U.S. federal securities laws. The timing of purchases and the exact number of ordinary shares to be purchased will be determined by the Company's management, at its discretion, and will depend upon market conditions and other factors. The program will be funded using the Company's cash on hand and cash generated from operations.

## MILITARY AND DEFENCE

### Boeing to build MH-47G Block II Chinooks for Special Ops

Boeing will build next-generation MH-47G Chinooks for the U.S. Army Special Operations Aviation Command. The Block II configuration will enhance the Army's ability to safely carry out the most challenging missions around the world. The US\$194 million contract is for a second lot of MH-47G Block II aircraft, to be delivered starting in 2021. Block II Chinooks feature technological

### Daher acquires Quest Aircraft Company

Daher, producer of the TBM family, is taking a major step in developing the company's airplane manufacturing business with the planned acquisition of Quest Aircraft Company, based in Sandpoint, Idaho, USA, which builds the Kodiak 100. Through this major acquisition, Daher is enhancing its presence in the general and business



Kodiak 100

Photo: Daher

aviation segment by offering a wider multi-product range. Already well known for its TBM 910 and TBM 940 turboprop aircraft, Daher's airplane portfolio has now expanded to include the Kodiak 100. The Kodiak 100 is a 10-seat, unpressurized, entry-level aircraft in the single-engine turboprop category. Originally created for humanitarian missions in developing countries, the Kodiak 100 is an agile and robust aircraft, capable of operating on uneven and ultra-short runways, while offering optimal safety. Certified in 67 countries, the Kodiak 100 is used worldwide by air-taxi, recreational and leisure operators, along with businesses, pilot-owners and humanitarian organizations. In addition to its development and purchasing synergies, the Quest Aircraft Company's acquisition offers excellent commercial, technological and geographical complementarities. With more than 150 years of know-how, Daher now intends to invest in this production platform to offer an enhanced services and sales network.

### Ryanair announces acquisition of new subsidiary – Malta Air

Ryanair has agreed to purchase Malta Air, a Maltese start-up airline, creating a new subsidi-



Contract signing between Ryanair and the Government of Malta

Photo: Ryanair

ary to the Ryanair Group of low-cost carriers in addition to Buzz (Poland), Lauda (Austria) and Ryanair (Ireland). Initially, the new airline will take over all Ryanair's 61 current routes and operating six aircraft, but this number is expected to increase to ten over the next three years as the number of routes increases. The six Malta-based aircraft will be given a new livery in time for the summer of 2020. As part of the creation of a new airline, not to be confused with the existing flag-carrier Air Malta, the Maltese government will hold a "golden share", giving it the right of veto over major changes. Malta air will not challenge Air Malta on the Maltese carrier's routes, which are primarily to major European destinations, Africa and the Middle East. In addition to transferring six aircraft to the new airline, it is understood that Ryanair will also be re-registering a further 50 aircraft on the Island. This could indicate that the low-cost carrier is looking to use Malta as a maintenance hub. In moving Ryanair-based aircraft from France, Italy and Germany onto the Malta AOC, this will allow those crews to pay their income taxes locally in France, Italy and Germany instead of Ireland where they are currently required to pay income taxes under Ryanair's Irish AOC.

## MILITARY AND DEFENCE

advancements to extend the fleet's service life and enhance performance. Boeing is now on contract for a total of 15 MH-47G Block II Chinooks. The first MH-47G Block II aircraft is scheduled to begin final assembly this year.

## INFORMATION TECHNOLOGY

To support maintenance and supply chain operations, **ADSoftware** is now offering a logbook application and a mechanic-oriented application. eLOG is the electronic logbook solution. It has been used by pilots at one of ADSoftware's largest customers (approximately 80 A/C). One of the strengths of the solution is that it is fully integrated with the existing desktop applications, making every flight input easier. All the flight times are reviewed and signed off by each pilot before being transferred to the database directly from the mobile device, hence eliminating the need for paper-based communication. The app also allows for the filling in of complaints that will then be reviewed by maintenance and necessary maintenance tasks performed. Digitalizing this workflow saves time, paper and reduces mistakes or omissions. The application is interfaced with a pilots' and mechanics' qualifications database giving an added layer of safety to the operator. eWORK is the application that mechanics can use to collect work orders that have been assigned to them. They will see their tasks and they can access the relevant documentation. If they need materials or tooling, they can place their request on the app. The time they spend performing their work is monitored and uploaded to the database. This creates a comprehensive view of the costs of an action and makes it easy to invoice it to customers (or to perform financial analysis of production processes).

**United Airlines** has become the latest U.S. airline to connect to **Airbus'** open-data platform, Skywise, following an agreement recently signed between the airline and Airbus. United will leverage Skywise to enhance all aspects of its maintenance and engineering operations on its Airbus fleet. With flexible and visual tools, Skywise enables airlines to store, access, manage and analyze data more efficiently while also benchmarking against other airline users' trends. Skywise provides all technology elements in one place, including data warehousing, visualization, alerting, and even machine learning packages, allowing United and other airlines to nimbly develop and deploy their own analytical products. In addition, Skywise seamlessly connects with the data integration platform, Palantir Foundry. United began using this platform in 2018, and the combination of Palantir Foundry and Airbus' Skywise will provide United with the data and tools to enhance its operational reliability.

## Embraer to showcase multi-mission airlift KC-390 at Paris Air Show



KC-390 to be seen at this year's Paris Air Show in Le Bourget

Photo: Embraer

At this year's Paris Air Show International in France, Embraer will showcase the first KC-390 multi-mission airlift, configured to operate with the Brazilian Air Force (FAB). The aircraft, number 004, will be in the static area from June 17 to 23 at the Le Bourget airport. Also, the KC-390 will perform flight demonstrations on the first two days of the show. In agreement with the FAB, the airplane will return to Brazil right after the air show when it begins the acceptance and delivery process. The KC-390 program has already reached important milestones, such as Brazil's Civil Aviation Agency's (ANAC) Type Certificate and the production of the first series aircraft that performed its first flight in October 2018. To date, the flight test campaign has surpassed 2,200 flight hours.

## Sikorsky receives contract to build six Presidential Helicopters



Sikorsky VH-92A Presidential Helicopter

Photo: U.S. Marine Corps

Sikorsky will build six production VH-92A Presidential Helicopters under a contract from the U.S. Navy. These helicopters are part of the 23-aircraft program of record for the U.S. Marine Corps. Under the terms of the contract, known as Low Rate Initial Production (LRIP) Lot 1, Sikorsky will begin deliveries of six VH-92A helicopters in 2021. The remaining production aircraft will be delivered in 2022 and 2023. The contract also provides spares and training support. The contract award follows an affirmative Milestone C decision on May 30 from the U.S. Navy moving the development program into production.



## OTHER NEWS

**Hawaiian Airline** has posted its system-wide traffic statistics for the month ended May 31, 2019. The carrier welcomed more than one million guests in May. Total traffic increased 5.8% on an increase of 4.1% in capacity compared to May 2018. Load factor increased 1.4 points year-over-year to 87.3%.

A total of 3,362,413 passengers chose to fly with **Norwegian** in May; 59,047 less than the same month the previous year. The total traffic increased by 4%, while the capacity growth was 4% compared to May 2018. The load factor was 86.1%, down 0.4 points.

**JetBlue Airways** has released its preliminary traffic results for May 2019. Traffic in May increased 5.7% from May 2018, on a capacity increase of 5.4%. Load factor for May 2019 was 86.0%, an increase of 0.2 points compared to May 2018. JetBlue's preliminary completion factor for May 2019 was 99.7%.

**International Airlines Group (IAG)** traffic in May increased by 6.0% versus the same period last year while capacity rose by 5.3% versus the same period last year. The load factor for May increased 0.5 points to 82.3% when compared to May 2018.

**FedEx** has made the strategic decision not to renew the **FedEx Express U.S.** domestic contract with **Amazon.com**, as it will focus on serving the broader e-commerce market. This decision does not impact any existing contracts between Amazon.com and other FedEx business units or relating to international services. Amazon.com is not FedEx's largest customer. The percentage of total FedEx revenue attributable to Amazon.com represented less than 1.3% of total FedEx revenue for the 12-month period ended December 31, 2018. FedEx stated that there is significant demand and opportunity for growth in e-commerce which is expected to grow from 50 million to 100 million packages a day in the U.S. by 2026. FedEx has already built out the network and capacity to serve thousands of retailers in the e-commerce space.

**Southwest Airlines** had to reschedule its flight plan for the 737 MAX again. In April the carrier revised its flight schedule by removing the MAX through Aug. 5, to offer reliability to its operation and stability for its customers during the busy summer travel months. With the timing of the MAX's return-to-service still uncertain, Southwest has had to further revise its plans to remove the MAX from its schedule, this time through September 2. The revision will proactively remove roughly 100 daily flights from the carriers sched-



Photo: Revima

**Revima**, a leading independent aviation MRO solutions provider, has selected IFS Applications 10 to drive the company's international expansion and support its complex maintenance operations. Propelled by strong growth, Revima is currently in the process of establishing a new, ultra-modern MRO facility in Thailand. The 130,000-ft<sup>2</sup> site will become operational in early 2020 and will provide advanced MRO services for landing gear to customers in the Asia Pacific region. "Our accelerated growth coupled with the decision to build a new facility in Thailand were the catalysts for deploying advanced business processes and harmonizing them throughout the company," said Olivier Legrand, President & CEO, Revima. "IFS Applications distinguished itself from the competition through its robust, out-of-the-box MRO capabilities, which are delivered through a modern and intuitive user experience. Another deciding factor was IFS's numerous customer references in the global aerospace sector." IFS Applications 10 will be deployed at Revima's facilities in Chonburi, Thailand, Caudebec-en-Caux and Saint-Ouen-l'Aumône France, supporting more than 1,000 MRO specialists when fully implemented.

**EASA** has published European rules on drones to ensure drone operations across Europe are safe and secure. The rules will, amongst others, help to protect the safety and the privacy of EU citizens while enabling the free circulation of drones and creation of a level playing field within the European Union. The new rules include technical as well as operational requirements for drones. On one hand they



New EU-wide rules on drones

Photo: EASA

define the capabilities a drone must have to be flown safely. For instance, new drones will have to be individually identifiable, allowing the authorities to trace a particular drone if necessary. This will help to better prevent events similar to the ones which happened in 2018 at Gatwick and Heathrow airports. On the other hand, the rules cover each operation type, from those not requiring prior authorization, to those involving certified aircraft and operators, as well as minimum remote pilot training requirements. The new rules will replace existing national rules in EU Member States. While the EU regulation will enter into force in the next 20 days, it will be applicable only in one year, to give Member States and operators time to prepare and implement it. As of June 2020, operators of drones will need to register in the Member State where they have their residence or their main place of business.

## OTHER NEWS

ule out of its total peak-day schedule of more than 4,000 daily flights.

**Boeing's** largest shareholder, the **Vanguard Group Inc** which currently holds a 7.1% stake in the U.S. plane maker, has made public its concerns over Boeing management's handling of the grounding of the 737 MAX and that its fund managers have become "very concerned" regarding oversight failures in light of the two recent fatal 737 MAX crashes. According to the Financial Times, the British newspaper has had sight of a letter written by Vanguard's head of portfolio company engagement, analysis and voting, W. Robert Main III, in which he stated that Vanguard had "engaged with Boeing leadership and directors to convey our concerns." Main also wrote that: "In our role as shareholders, we expect companies to effectively oversee the materials risk of their business, adding: "In Boeing's case, our expectation is that Boeing Leadership, including its Board of Directors, closely monitoring and maintaining the safety of its aircraft." Since the two crashes, several advisory groups have been pressing for a management shake-up at Boeing, including the removal of CEO Dennis Muilenburg as Board Chairman. One of the most critical people has been Ralph Nader whose grandniece was killed in the Ethiopian Airlines crash in March and who has personally written Vanguard's CEO Mortimer Buckley urging him to push for an investigation into "management misdeeds" and to "make sure Boeing management takes its responsibility seriously. While Vanguard have kept details of the correspondence confidential, Mr. Main confirmed that Vanguard frequently investigates incidents that "put the health and safety of consumers at risk, or [which] threaten to disrupt confidence in an industry." Boeing has stated that it has finished the anti-stall software 'fix' to ensure the plane is



Photo: Lufthansa

**Lufthansa Group airlines** welcomed around 13.2 million passengers in May. This shows an increase of 2.8% compared to the previous year. Capacity for May was up 3.5% over the previous year, at the same time, traffic increased by 5.7%. In addition as compared to May 2018, the seat load factor increased by 1.7 points to 81.1%. Cargo capacity increased by 7.3% year-on-year, while cargo traffic increased by 2.5% in revenue tonne-kilometre terms. As a result, the Cargo load factor showed a corresponding reduction, decreasing by 2.9 points to 61.3%. The **Network Airlines** including **Lufthansa German Airlines**, **SWISS** and **Austrian Airlines** carried around 9.7 million passengers in May – 5% more than in the prior-year period. Compared to the previous year, the capacity increased by 5.1% in May and traffic was up by 8% over the same period, with an increasing seat load factor by 2.2 points to 81.4%. Eurowings (including **Brussels Airlines**) carried around 3.5 million passengers in May. Among this total, around 3.3 million passengers were on short-haul flights and 250,000 flew on long-haul flights. This corresponds to a decrease of 3.1% on short-haul routes and an increase of 3.2% on long-haul routes compared with the previous year. A 3.2% decline in capacity in May was offset by a 3.9% decline in traffic, resulting in a seat load factor of 79.6%, which is 0.6 points lower.

safe to fly, but the jet's return to service will likely be delayed for quite some time while Boeing

answers several questions from the U.S. Federal Aviation Administration.

  
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ANAC, TCCA, NCAA, & 2-REG



## INDUSTRY PEOPLE



Stéphane Dubois

Stéphane Dubois was named Safran Executive Vice President, Human Resources on June 5. He replaces **Jean-Luc Bérard**, who was at the same time appointed Special Advisor to the Chief Executive Officer, in charge of corporate social responsibility (CSR) policy. Stéphane Dubois is also a member of the Group's Executive Committee.



Warrick Hood

**Warrick Hood** has joined C&L Aviation Group as Senior VP responsible for the company's growing ATR program. Hood will oversee ATR parts' distribution, aircraft support, consignments, and other programs for regional aircraft operators around the world. Hood brings with him extensive knowledge of aviation purchasing, logistics, business development, inventory management, and accounting procedures from his 13 years of international aviation experience. He has developed strong relationships with European and African regional airlines, specializing in ATR, ERJ, Beechcraft, and Cessna aircraft, and has utilized those relationships to support customers creating solutions for their regional aircraft. Previous to his employment with C&L, Hood was Managing Director for ACIA Aero Parts Company.



Roger Ross

**Roger Ross** has been appointed as President of the company's Airlines and Fleets division. He will be located at the company's Scottsdale, Arizona, headquarters and be responsible for the largest division of StandardAero, with multiple sites in the U.S., Canada, Europe, Africa and Australia. Ross previously served as President of Esterline Technologies, Sensors and Systems and has more than 25 years of accomplished leadership in the Aerospace Industry. During his career, Ross managed a number of successful operations for Goodrich Aerospace, rising through leadership positions in operations and engineer-

## Recommended Events



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### Engine Leasing Seminar

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### Effective Risk Management in Aircraft Leasing & Aviation Finance

September 18, 2019 – Holiday Inn Kensington High Street, London

### Aircraft Economic Life Summit

November 18, 2019 – Gibson Hotel, Dublin, Ireland

[Click here for more aviation events](#)

ing, covering MRO and Engine Programs as well as Aerostructures and Actuation systems. Following the acquisition of Goodrich by United Technologies, Ross continued to manage large global business P&Ls for both OEM and Aftermarket systems in multiple domestic and international locations.

Astronics Corporation has released that **Kevin T. Keane**, a member of its Board of Directors for nearly 50 years and Board Chairman for 45 years, has passed away on June 10, 2019 in Buffalo, NY. Kevin T. Keane joined the Board and began his career with Astronics in 1970 and was named Chairman in 1974. He served as President and Chief Executive Officer of the company from 1974 to 2002. He was actively involved in the community, serving on several boards and volunteering his time with numerous organizations.

Specialist aircraft component support provider Bii.aero has announced the appointment of **James Burley** as their new Commercial Manager. Capitalizing on his previous sales experience, Burley will focus on establishing and managing the strategic growth of Bii's broad inventory of Boeing and Airbus aircraft spares. He will also play a key role in developing and enhancing Bii's use of analytics to support company growth. Burley's previous positions include roles with AvTrade, AJW Aviation and Aircraft Leasing & Technical Management Ltd.

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# THE AIRCRAFT AND ENGINE MARKETPLACE

## Commercial Jet Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
A319-200	Castlelake	CFM56-5B6/3	3560	2008	Now	Lease	Michael Hackett	Michael.hackett@castlelake.com	+44 20 7190 6120
A319-200	Castlelake	CFM56-5B6/3	3533	2008	Now	Lease	Michael Hackett	Michael.hackett@castlelake.com	+44 20 7190 6120
A320-200	ORIX Aviation	V2527-A5	3807	2007	Q1/2020	Lease	Matthew Gialopsos	Matthew.Gialopsos@orix.ie	+353 83 167 2233
A320-200	ORIX Aviation	V2527-A5	4603	2011	Q1/2020	Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A320-200	ORIX Aviation	CFM56-5B4/3	5213	2012	Q2/2020	Lease	Matthew Gialopsos	Matthew.Gialopsos@orix.ie	+353 83 167 2233
A320-200	TrueAero Asset Management	V2527E-A5	5794		Nov 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A320-200	TrueAero Asset Management	V2527E-A5	5531		Oct 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A320-200	TrueAero Asset Management	V2527E-A5	5296		Aug 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A320-200	TrueAero Asset Management	V2527E-A5	5089		Jun 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A320-200	TrueAero Asset Management	V2527E-A5	5050		Apr 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A320-200	Castlelake	V2533-A5	1648	2001	Q4/2019	Lease	Michael Hackett	Michael.hackett@castlelake.com	+44 20 7190 6120
A320-232	DVB Bank	V2527-A5	2156	2004	Q4/2019	Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
A320-232	DVB Bank	V2527-A5	2395	2005	Q1/2020	Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
A321-200	Castlelake	V2533-A5	3274	2007	Q4/2019	Lease	Michael Hackett	Michael.hackett@castlelake.com	+44 20 7190 6120
A321-200	Castlelake	V2533-A5	1928	2003	Q1/2020	Lease	Michael Hackett	Michael.hackett@castlelake.com	+44 20 7190 6120
A330-200	DVB Bank	CF6-80E	814	2007	Q2/2020	Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
A330-200	TrueAero Asset Management	CF6-80E1A4/B	882		Apr 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A330-200	TrueAero Asset Management	CF6-80E1A4/B	901		Apr 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A330-200	TrueAero Asset Management	CF6-80E1A4/B	932		May 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A330-300	DVB Bank	Trent 772B-60	1485	2014	Q1/2020	Sale / Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
B737-700	Kellstrom Aerospace	CFM56-7B26	28210	1998	Now	Sale	Michael Garcia	info@kellstromaerospace.com	+1 (847) 233-5800
B737-5H6	Bristol Associates	CFM56-3C1	26445	1992	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B737-800	DVB Bank	CFM56-7B27	28178	1999	Q4/2019	Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
B737-800	ORIX Aviation	CFM56-7B24E	40317	2012	Q4/2019	Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
B737-800	ORIX Aviation	CFM56-7B24	33641	2007	Q2/2020	Lease	Matthew Gialopsos	Matthew.Gialopsos@orix.ie	+353 83 167 2233
B737-800	Willis Lease				soon	Sale / Lease	Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775
B757-200PCF	Wahoo Aviation	RB211-535E4B	22210	1984	Now	Sale	Tim Corley	tcorley@wahooviation.com	+1 (360)870-9172
B747-400	Bristol Associates		28812	1999	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B747-400	Bristol Associates		30023	2000	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B757-223 (7x)	Jetran	RB211-535E4B	various	91/92	Now	Lease	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
B777-300ER	DVB Bank	GE90-115b	35161	2008	Q3/2019	Sale / Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
(2) B787-800					soon	Sale / Lease	Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775

## Regional Jet / Turboprop Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
CRJ-200LR	Regional One	CF34-3B1	8062	2006	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
CRJ-700	Regional One	CF34-8C5B1	10205	2005	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
Dash 8 Q400	DVB Bank	PW150A	4160	2007	Now	Sale	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
D0328 Jet	Regional One	PW306B	3185	2001	Jul 2019	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
Do328-100	Jetran	PW119B	3049	1996	Now	Sale	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
Do328-110	Jetran	PW119B	3024	1994	Now	Sale	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
Do328-110	Jetran	PW119B	3034	1995	Now	Sale	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
ERJ-170LR	AerFin	CF34-8E	1700123		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700119		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700124		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581

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# THE AIRCRAFT AND ENGINE MARKETPLACE

## Regional Jet / Turboprop Aircraft (cont.)

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

## Commerical Engines

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



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## Commerical Engines (cont.)

(2) CFM56-5A	Now - Sale	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
(1) CFM56-5B3/3	Now - Lease	Rolls-Royce & Partners Finance	Charlie Ferguson	charlie.ferguson@rolls-royce.com	+44-(0)7772224895
(1) CFM56-7B20	Now - fresh from OH	CFM Materials	Jimmy Hill	jimmy.hill@cfmmaterials.com	+1 -214-988-6670
(1) CFM56-7B26	Now - fresh from OH				
(1) CFM56-5B	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@werner aero.com	+1-703-402-7430
(1) CFM56-7B	Now - Sale/Lease/Exch.				
(2) CFM56-7B26/27	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
<b>JT8D and JT9D Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) JT8D-217C	Now - Sale	AZURE RESOURCES INC.	Jeff Young	jeff@azureres.com	1-954-249-7935
(1) JT8D-219	Now - Sale / Lease	LCHAerospace	Carlos Miranda	cmiranda@lchaerospace.com	+1 954-644-9617
<b>GE90 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) GE90-115B	Soon - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
(3) GE90-115B	Now - Lease	Bain&Company (on behalf of major UAE airline)	Viacheslav Derzhaev	Viacheslav.Derzhaev@Bain.com	+7 (926) 495 96 90
<b>GENx Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(2) GENx1B74/75 Propulsor	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
<b>LEAP Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(2) LEAP-1B28	Soon - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
(2) LEAP-1A33	Soon - Lease				
(1) LEAP1A-32	Now - Lease	Rolls-Royce & Partners Finance	Charlie Ferguson	charlie.ferguson@rolls-royce.com	+44-(0)7772224895
<b>PW Small Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) PW121	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(2) PW123B/E	Now - Sale / Lease				
(1) PW127E/F/M	Now - Sale / Lease				
(1) PW150A	Now - Sale / Lease				
(2) PW121	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	leasing@willislease.com	+1 415 516 4837
(2) PW123	Now - Sale/Lease/Exch.				
(1) PW127	Now - Sale/Lease/Exch.				
(2) PW127F	Now - Sale/Lease/Exch.				
(2) PW150A	Now - Sale/Lease/Exch.				
(2) PW127M	Now - Sale/Lease/Exch.				
(1) PW120A	Now - Sale / Lease	Regional One	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
(1) PW120	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) PW123E	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(4) PW126	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) PW121	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
PW119B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
PW119B	Now - Lease				
PW120A	Now - Lease				
PW121 (ATR)	Now - Lease				
PW124B	Now - Lease				
PW123B	Now - Lease				
PW125B	Now - Lease				
PW127F	Now - Lease				
PW150A	Now - Lease				
PW127M	Now - Lease				
PW150A RGB	Now - Lease				
(1) PW124B	Now - Sale/Lease/Exch.	Logix Aero	Jean-Christian Morin	jcmorin@logix.aero	+33.6.4782.4262
(2) PW127E/F			Remi Krys	rkrys@logix.aero	+33.6.2079.1039
(4) PW127M					
(1) PW120 / PW121	Now - Sale / Lease	Royal Aero	Calum MacLeod	calum@royalaero.com	+49 8025 993610



# THE AIRCRAFT AND ENGINE MARKETPLACE

## Commerical Engines (cont.)

(1) PW4056-3	Now - Sale/Lease	Jet Midwest	Kevin Lee	engines@jetmidwest.com	+1-310-652-0296
<b>RB211 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) RB211-535	Now - Sale / Lease	Jet Midwest	Dave Williams	dave.williams@jetmidwest.com	+1-817-791-4930
<b>Trent Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) Trent 772B	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Ben Ferguson	Benjamin.ferguson@rolls-royce.com	+44 7807 969 372
<b>V2500 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(2) V2533-A5	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Ben Ferguson	Benjamin.ferguson@rolls-royce.com	+44 7807 969 372
(1) V2530-A5	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
(1) V2533-A5	Now - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
(1) V2533-A5	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@werner aero.com	+1-703-402-7430

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

Description		Company	Contact	Email	Phone
(1) A320-200 Landing Gear	Now - Sale/Lease/Exch.	TrueAero, LLC	Matt Parker	mparker@trueaero.com	+1 469-607-6110
A340-300/A330 Landing Gear	Now - Sale/Lease/Exch.				
A340-600 Landing Gear	Now - Sale/Lease/Exch.				
B777-200 Landing Gear	Now - Sale/Lease/Exch.				
Trent 552 Inlet Cowls & Fan Cowls	Now - Sale/Lease/Exch.				
Trent 892 Inlet Cowls and Fan Cowls	Now - Sale/Lease/Exch.				
CFM56-5B Inlet Cowls and Fan Cowls	Now - Sale/Lease/Exch.				
V2500-A5 Inlet Cowls & Fan Cowls	Now - Sale/Lease/Exch.				
CF6-80E Trust Reversers, Inlets & Fan Cowls	Now - Sale/Lease/Exch.				
APUs (2) GTCP331-500B, (1) APS3200	Now - Sale/Lease/Exch.				
Neutral CFM56-5B Kit, PN 642K9001-211	Q4/2019 - Sale	CFM Materials	Michael Arellano	Michael.Arellano@cfmmaterials.com	+1-214-988-6676
Neutral CFM56-7B QEC Kit	Q3/2019 - Sale				
767-300ER 413K, 737-300 LANDING GEAR	Now - Sale/Lease/Exch.	AZURE RESOURCES INC.	Jeff Young	jeff@azureres.com	1-954-249-7935
GTCP36-300A, GTCP85-98DHF APU	Now - Sale/Lease/Exch.				
A320 Nose Landing Gear	Now - Sale/Lease/Exch.				
CFM56-3 LPT MODULE, REPAIRED	Now - Sale/Lease/Exch.				
CFM56-3 ENGINE STAND	Now - Lease				
(1) GTCP36-150RJ, (2) GTCP36-100M,	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) RE220RJ, (1) PW126 RGB, (1) PW901A					
(1) APS1000-C12, (1) APS1000-C3					
GTCP131-9A (2), GTCP131-9B(2)	Now - Lease	REVIMA APU	Olivier Hy	olivier.hy@revima-apu.com	+33(0)235563515
GTCP331-200, GTCP331-250	Now - Lease				
APS500C14(3), APS1000C12(2), APS2000	Now - Lease				
APS2300, APS3200(2), APS5000(2)	Now - Lease				
PW901A(4), PW901C(2)	Now - Sale / Lease				
TSCP700-4E	Now - Sale				
(1) PW901A APU	Now - Sale	Royal Aero	Gary MacLeod	gary@royal aero.com	+44 (0)141 389 3014
(1) GTCP131-9B	Now - Sale/Lease/Exchange	LongReach Aviation	Melanie Wood	info@longreach.com	+1-305-271-6650
(1) GTCP131-9B	Now - Sale / Lease	DASI	Chris Glascock	Chris.Glascock@dasi.com	+1 954-801-3592
(multiple) APS2300, (1) GTCP331-350C	Now - Sale / Lease	AirFin	Nick Filce	Nick.Filce@aerfin.com	+44 7770 618 791
(1) GTCP36-300A, (1) GTCP131-9A					
GTCP131-9A, GTCP131-9B, GTCP331-350C	Now - Sale/Lease/Exch.	Logix.Aero	Jean-Christian Morin	jcmorin@logix.aero	+33.6.4782.4262
GTCP331-500B, GTCP331-200/250,			Rich Lewsley	rlewsley@logix.aero	+1 602 517 8210
APS3200, APS2300, GTCP85-129H					
APU GTCP 331-500	Now - Sale / Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
Engine stands now available	Now - Lease				
ENGINE STANDS: Trent 800, PW4000 112"/V2500		National Aero Stands		support@stands.aero	+ 1 305-558-8973
/ CFM56/ PW2000 & Bootstrap kits					
GTCP131-9A, GTCP 131-9B	Now - Sale / Lease	Werner Aero Services	Julien Levy	jlevy@Werneraero.com	+1 201-674-9999
737-800 Winglets	Now - Sale / Lease				
737-700 & 737-800 Landing Gear	Now - Sale / Lease				
(3) APS 2300	Now - Sale/Lease/Exch.		Mike Cazaz	mike@werneraero.com	+1 201-661-6804
(2) PW901A, (1) PW901C(1), PW125B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368