

# Weekly Aviation Headline News

## WORLD NEWS

### Jet Airways suspends international flights

Jet Airways has suspended all its international flights, raising fresh fears about the survival of India's largest private airline, the BBC reports. The airline, saddled with more than \$1bn (£765m) of debt, is seeking a financial lifeline to avoid collapse. The Indian government said steps were being taken to ensure passenger safety after flights were cancelled. Carriers in India must maintain a fleet of least 20 aircraft to continue to operate international services. The Indian carrier appears to be on the point of total collapse, with almost all flights at its Mumbai airport base shown as "cancelled" or "non-operational". A consortium of creditors, led by the State Bank of India (SBI), became the majority shareholders of Jet Airways. According to Indian media reports, the airline currently has 14 operational planes, most likely the ATRs but this remains unconfirmed at the time of this writing.

### Ryanair to connect from Brussels

Ryanair launched its connecting flights service at Brussels Charleroi Airport, with 27 routes to European destinations – Ryanair's Yann Delomez said: "Customers flying on these routes will be able to transfer onto their next flight at Brussels Charleroi without having to go landside, and will have their bags checked through to their final destination." The development is a further move by LCCs to blur the lines between low cost and network airlines.



Questions raised in the U.S. about Air Italy and Qatar Airways.

Photo: Air Italy

### Qatar Airways refutes U.S. open-skies breach

As Air Italy increases transatlantic services

The United States is scrutinising state-owned Qatar Airways' acquisition of a 49 percent stake in Air Italy, which has been flying to US destinations since June in a move seen by US lawmakers as flouting a deal not to add new flights to the domestic market, according to local reports.

The decision by Qatar Airways to rebrand Meridiana and bankroll its expansion came just months after the State of Qatar reached a landmark agreement with the United States over Open Skies policy. It followed a near four-year campaign from the likes

of Delta, United and American Airlines who accused Qatar Airways of receiving over \$25 billion in government subsidies in violation of the current Open Skies agreement.

Qatar Airways said the stake in Air

said: "We're looking very closely at this recent decision by Qatar to take on 49 percent of this airline."

Qatar Airways has defended itself saying it holds a 49 percent stake in Air Italy's parent company, AQA.

This minority investment is at the same level that Delta holds in both Virgin Atlantic

and Aeromexico, and that Etihad held in Alitalia, the Doha carrier states.

Qatar Airways insists that investment in Air Italy, and operations to

**"We're looking very closely at this recent decision by Qatar to take on 49% of this airline."**

*Mike Pompeo, U.S. Secretary of State*

Italy was "fully compliant" with the 2018 U.S.-Qatar Understandings, an additional pact that accompanied the U.S.-Qatar Open Skies agreement.

Secretary of State Mike Pompeo

*Continued on page 3*

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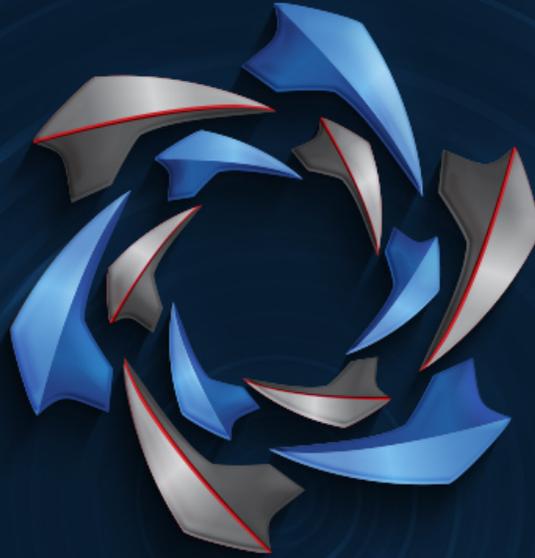
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the United States, are fully compliant with the U.S.-Qatar Open Skies Agreement, the January 2018 U.S.-Qatar Understandings, and a side letter that accompanied the discussions.

Furthermore, Qatar Airways says it does not codeshare on any of Air Italy's flights to the United States and has no plans to do so. Qatar Airways is not operating any Fifth Freedom scheduled air services to the U.S. to new entrants into the U.S.-Europe market, and their attacks on Air Italy based on the identity of its minority shareholder are just another manifestation of this hostility, the airline states. Qatar questions why Air Italy seems to be a major "threat" to the "Big 3" American airlines when it has a fleet of just 15 aircraft and only serves one U.S. city – New York – with a daily service while other routes, Miami, Los Angeles and San Francisco are operated at a lower frequency.

The U.S.-Qatar Open Skies Agreement has brought enormous benefits to U.S. and Qatari consumers, businesses and communities, the airline emphasises.



Qatar has a stake in the Italian carrier

Photo: Air Italy

## AIRCRAFT & ENGINE NEWS

### Honeywell and Volocopter to research and develop navigation solutions for urban air mobility

Honeywell and Volocopter have signed an agreement to jointly test and develop new navigation and automatic landing systems for Volocopter's vertical takeoff and landing aircraft as the emerging era of urban air mobility moves closer to delivering a new breed of cleaner, safer and smarter air vehicles. This agreement launches Honeywell's extensive autonomous sensing and flight technologies, including inertial measurement units, attitude heading reference solutions, and potentially other urban air mobility (UAM) innovations, into this rapidly developing transportation market. These solutions feature and build on technologies developed under Europe's Clean Sky 2 and Single European Sky Air Traffic Management Research (SESAR) 2020 industry and government collaboration programs. Honeywell and Volocopter aim to prove and mature existing technologies by testing and evolving various sensor-based navigation systems for use in fully electric vertical take-off and landing aircraft. These tests will help the two companies create new technologies for urban air mobility. Urban air mobility comprises personal air vehicles, such as flying taxis, with on-demand availability and will provide faster and more efficient movement of people within cities to improve safety and decrease traffic. These passenger services will eventually include the use of autonomous vehicles.

## Orders and deliveries – Boeing and Airbus

Airbus v Boeing: Orders and Deliveries					
March 2019 YTD					
	Airbus		Boeing		
Type	Orders	Deliveries	Type	Orders	Deliveries
A220	-1	8	737	29	89
A320 Family	-22	126	747	0	2
A330	0	5	767	4	12
A350	-4	22	777	20	10
A380	-31	1	787	38	36
<b>Total</b>	<b>-58</b>	<b>162</b>	<b>Total</b>	<b>91</b>	<b>149</b>

Source: Airbus

Source: Boeing

Airbus received orders for 58 jetliners in March – led by the A350 XWB widebody family in transactions that included a new customer; while delivering 74 aircraft to 40 customers from across its A220, A320, A330, A350 XWB and A380 product lines.

Boeing reported 44 orders in March with the bulk being for 787-9s and 18 777Xs for British Airways. Not surprisingly, there were no orders for the 737 MAX. Deliveries included 54 aircraft across the production line.

### GA Telesis launches APU Leasing Business with first sale and leaseback on four Auxiliary Power Units

GA Telesis has reported the first sale and leaseback (SLB) on four Auxiliary Power Units (APUs) with a major Eurasian Airline. The three Airbus A320 and one A330 APUs will be on a long-term operating lease with the carrier. While GA Telesis has transacted on hundreds of APUs in its history, this was its first-ever SLB and will be the commencement of building a large APU lease portfo-

lio for its vast customer base. In addition, GA Telesis has speculated by investing tens of millions of dollars on new and overhauled APUs for current and new-technology aircraft that it will stock and make available to its global customers. "GA Telesis was approached by a customer in our region to create a financial and operating solution around their APUs. With our vast financial and service offerings, we were well placed to support the operator's needs that addressed their unique requirements," stated Mehmet Dogan, Managing Director, GA Telesis Istanbul.

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**TAP Air Portugal takes delivery of first A321LR**



TAP Air Portugal A321LR delivery

Photo: Airbus

Lisbon-based TAP Air Portugal has taken delivery of its first of twelve A321LRs on order, becoming the first airline to operate a combined A330neo and A321LR fleet. Powered by CFM engines, TAP's A321LR is configured with 171 seats (16 full flat Business, 48 Eco Premium and 107 Economy seats). The combination of the A321LR and the A330neo within a single fleet provides operators a powerful lever to cover the needs of the medium-to-long-haul market. TAP's A321LR will be operated on the Lisbon-Tel Aviv route at its entry into service.

**AviaAM Leasing sells two Airbus A321's with leases attached**



Air Transat

Photo: AirTeamImages

AviaAM Leasing has sold two Airbus A321 aircraft to global investors. Both aircraft are leased to Air Transat, the Canadian holiday travel airline, under 74-month operating lease agreements. AviaAM Leasing acquired the two aircraft at the beginning of this year and after administrating the thorough maintenance checks required by the operator, delivered them to Air Transat.

**Uganda Airlines firms up order for two Airbus A330-800 airliners**



A330-800 Uganda Airlines

Photo: Airbus

Uganda Airlines, the national carrier of Uganda, has firmed up its order for two A330-800 airliners, the latest version of the most popular A330 wide-body airliner. Fitted with the new Airspace by Airbus cabin, the A330neo will bring a range of benefits to Uganda Airlines and its customers, offering unrivalled efficiencies combined with the most modern cabin. Uganda Airlines plans to use the A330-800 to build its medium- and long-haul network with the aircraft offering cutting-edge technology along with more efficient operations.

**A350 XWB receives Type Certification from Japan**



Japan Airlines' first ever order for Airbus aircraft includes 18 A350-900 jetliners  
Photo: Airbus

Japan's Ministry of Land, Infrastructure, Transportation, and Tourism (MLITT) has issued Type Certification for the Airbus A350 XWB, enabling the first A350 XWB customer from the country, Japan Airlines, to operate the aircraft. The Type Certification covers the aircraft powered by Rolls-Royce Trent XWB engines. JAL placed an order for 31 A350 XWBs (18 A350-900s and 13 A350-1000s) in 2013. It was JAL's first ever order for Airbus aircraft. The carrier's first A350-900 is scheduled for delivery in the middle of the year. JAL's A350 XWB fleet will enter service on major domestic routes, starting with its Haneda-Fukuoka route, from September, replacing older-generation wide-body types.

**OSM Aviation orders 60 Bye Aerospace eFlyer2 all-electric training aircraft**



All electric plane Bye Aerospace eflyer2

Photo: OSM Aviation

Norway's OSM Aviation Group, partly owned by low-cost carrier Norwegian Air, has just placed an order for 60 all-electric eFlyer2 aircraft for pilot training purposes at its OSM Aviation Academy. The eFlyer2 is manufactured by Colorado, U.S.-based Bye Aerospace with a book price of approximately US\$350,000. The eFlyer2 will see the 20 currently used and predominantly Cessna 172 light aircraft phased out partly due to reduced running costs, as well as the reduction in environmental impact. Last year Norway announced that it would be looking to buy electric passenger planes and offer passenger flights by 2025 in a bid to combat climate change. The eFlyer2 offers zero emission and significantly lower noise pollution compared with conventional aircraft, along with enhanced speed and altitude performance. According to Reuters, the eFlyer2 has estimated running costs of approximately US\$20.00 per hour compared to that of US\$110.00 per hour for the current traditional training aircraft. Pilots who train with the eFlyer2 will receive the same training and license as existing trainee pilots. The 60 new aircraft will enable OSM to expand its training facilities to more countries, including the U.S.



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**AIRCRAFT & ENGINE NEWS**

**Air Premia selects Rolls-Royce Trent 1000 engines for ten 787 Dreamliners**

Rolls-Royce Trent 1000 engines have been selected by new Korean airline Air Premia to power ten Boeing 787 Dreamliner aircraft. The airline will operate the latest version of the Trent 1000, the Trent 1000 TEN (Thrust, Efficiency and New Technology), which incorporates technologies from the Trent XWB engine, offering high fuel efficiency and low noise. Air Premia has also selected the Rolls-Royce flagship long-term Total-Care® support service which maximizes aircraft availability. The airline will use its 787-9 aircraft on routes of more than six hours to North America, Europe and Oceania. It plans to start services in 2020, with long-haul services from 2021.

**APOC Aviation acquires three A320 airframes for part-out in China**

Innovative aircraft and engine leasing, trading and part-out specialist APOC Aviation has acquired three A320 airframes for part-out. MSN 712, 718 and 720 were formerly acquired by CALC Group (China Aircraft Leasing Group) from China Southern Air Leasing earlier this year. APOC will retain CALC Group's MRO joint venture, FL ARI Aircraft Maintenance & Engineering Company ("FL ARI") to perform the part-out on the Company's behalf in CALC's aircraft recycling facility located in Harbin, China. The process is expected to be completed this summer, after which stock will be strategically offered in the Asia market, or partly shipped to APOC's warehouse in The Netherlands for sale and used to support AOG requirements 24/7 worldwide.

**MRO & PRODUCTION NEWS**

**Rolls-Royce awards Volo Aero MRO repair services contract**

Volo Aero MRO, a privately held MRO provider for engine and accessory piece part repair, has been chosen by Rolls-Royce for repair services on the AE3007 product line. As part of the organization's focus on supporting OEM's repair needs, this is the first contract received for this product line. Over the last few years Volo Aero MRO has been growing its Rolls-Royce, capabilities primarily on the T56/D-22 product covering shafts, gears and wheels. Recently Volo Aero MRO has added 4th-axis CNC machining, large-capacity vertical grinding and rubber repair capabilities to its portfolio. As the company improves its in-house capabilities to better fit the outsourcing needs in the civil and military

**LBAS receives EASA Part-145 Line Maintenance approval for Bombardier Global 7500 Aircraft**



Global 7500 business jet

Photo: Bombardier

Whilst Bombardier is delivering its newest and largest aircraft type to the first customers, Lufthansa Bombardier Aviation Services (LBAS) is now ready to offer services for the industry's largest and longest-range aircraft. The European Aviation Safety Agency (EASA) granted Lufthansa Bombardier Aviation Services approval to perform Line Maintenance Services at its home base in Berlin Schoenefeld. Moreover, LBAS can offer AOG services at any location worldwide for the Global 7500 business jet. "With the EASA approval for Bombardier's new flagship aircraft, we meet the needs of our clients and we can support them during the Entry into Service phase," said Clemens Schrettl, Head of Sales and Marketing at Lufthansa Bombardier Aviation Services.

**Bucher Group signs contract with Satair for galley spare parts**

At Aircraft Interiors in Hamburg, Bucher Group and Satair have signed an agreement for the supply of galley spare parts, thereby sealing the first collaborative agreement between the two companies. The contract is effective as of April 2019. The Bucher Group is a Swiss-based company with over 60 years of experience in the aircraft interiors business and a leading manufacturer of galleys and medical systems. Products and solutions produced by the Bucher Group



At Aircraft Interiors in Hamburg, the Bucher Group and Satair sign agreement for the supply of galley spare parts  
Photo: Satair

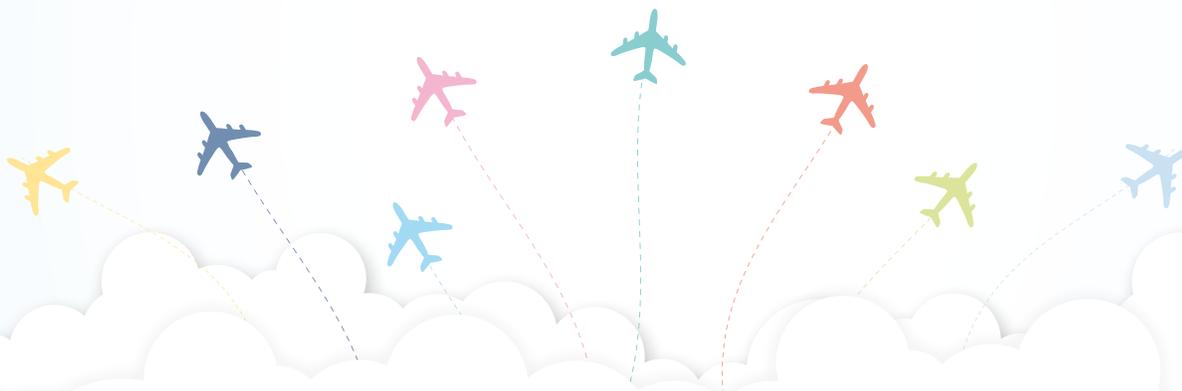
are used for Airbus, Boeing, Pilatus and many other aircraft. Likewise, Satair has more than 60 years of experience within the aerospace aftermarket industry, making the company a world leader within the commercial aftermarket within parts distribution and services.

# AVIATION FESTIVAL

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**MRO & PRODUCTION NEWS**

aerospace markets, it forecasts a continuation of the growth already seen in 2018 and the first quarter of 2019.

**StandardAero signs multi-year contract with Sky Regional Airlines**

StandardAero has signed a new multi-year contract with Sky Regional Airlines Inc. to provide maintenance, repair and overhaul services for the airline's Pratt & Whitney Canada APS2300 auxiliary power units (APUs). Sky Regional, based in Mississauga, ON, operates flights to destinations across Canada and the U.S. under the Air Canada Express banner. Under the agreement, StandardAero will provide MRO services for the APS2300 APUs equipping the fleet of Embraer E175 regional aircraft operated by Sky Regional Airlines. StandardAero's Maryville, Tennessee location, which is an OEM-approved Authorized Repair Facility (ARF) for the APS2300, will provide Sky Regional with customized MRO programs offering maximum support and flexibility to meet the airline's specific operational needs.

**GA Telesis MRO Services Group signs new long-term agreement with JetBlue**

GA Telesis has reported the execution of a long-term agreement with JetBlue. The agreement, which began in December 2018, covers the repair and overhaul of a variety of components for JetBlue's fleet of Embraer 190 aircraft. "We started working with JetBlue in early 2018 and our performance on TAT and reliability led to the execution of a long-term agreement," said Pastor Lopez, President of MRO Services.

**CAVU Aerospace to open component repair station**

During this year's MRO Americas trade show and conference, CAVU Aerospace announced its intent to develop a component repair station based in Phoenix, Arizona led by industry veteran Roy Hyde, former President & CEO of a tier-one FAA repair station. The announcement confirms CAVU's commitment to growth and this additional repair offering will further expand the capabilities available with CAVUSmartMRO™ service offerings. With over 30-plus years' experience in the aviation and aerospace industry focused on component repairs, Hyde is an experienced commercial aviation MRO professional. Prior to joining CAVU, Hyde spent thirteen years in the Air Force, three years managing the accessory shop at Dynair, then was later hired by Lee Benson to start the commercial overhaul di-

**BASF and AAR to jointly protect aircraft passengers and crew from ozone levels**



BASF ozone converter

Photo: AAR

BASF and AAR have signed an agreement to serve the aircraft ozone and Volatile Organic Compounds (VOC) converter market — providing improved airplane cabin air quality and healthier conditions for passengers and crew. BASF selected AAR as a distributor of BASF Deoxo™ aircraft cabin ozone/VOC converters and converter Maintenance Repair and Overhaul (MRO) services. The air at high altitude contains significant levels of ozone. If left unchecked, atmospheric ozone enters the aircraft through air conditioning ducts. Ozone exposure is known to cause adverse health effects, including headaches, fatigue, shortness of breath, chest pain, coughing, and irritation of the eyes, nose or throat. BASF offers technology to reduce both harmful ozone and VOC in aircraft cabin air. This technology improves air quality by removing ozone, as well as reducing certain hydrocarbon compounds responsible for unpleasant odors such as jet fuel smell, as well as those from lubricant leaks and on-ground maintenance activities.

**MTU Maintenance signs 12-year GE90 contract with United Airlines**



GE90 onsite maintenance

Photo: MTU

MTU Maintenance has signed a twelve-year GE90-115B maintenance contract with United Airlines. The fly-by-hour contract covers the maintenance, repair and overhaul of 49 engines powering the airline's B777-300ER fleet and includes MTU proprietary repairs as well as engine trend monitoring. United Airlines is headquartered in Chicago, Illinois. The airline operates over 770 mainline aircraft.

**MRO & PRODUCTION NEWS**

vision of ABLE Engineering. He was also one of the founding members of ATC Components and most recently served as its President and CEO. Hyde will assume the role of Vice President of CAVU Component Repair. The new repair facility will be branded as CAVU Component Repair and will be headquartered in Phoenix, AZ. It will offer repair on flight controls, flap tracks, flap carriages, and landing gear for most Boeing, Airbus, Bombardier and Embraer aircraft types. It will look to expand its repair capabilities in the future. CAVU Aerospace will also enhance its repair process with the implementation of its patent pending CAVUSmartTags™ technology to provide additional efficiencies for material direct from the point of dismantling.

**AAR PW2000 contract with MTU Maintenance extended for another five years**

AAR will be extending its PW2000 engine support contract with MTU Maintenance for another five years. AAR will be supplying PW2000 parts to support MTU, which is one of the largest engine overhaul providers in the world. MTU has recently said it has won contracts valued at more than US\$700 million and remains committed to its PW2000 engine MRO program for at least another 10 years. AAR is an important source of used serviceable materials (USM) in support of these engine overhauls.

**Collins Aerospace signs new long-term agreements with Air Europa and ANA**

Collins Aerospace has signed new contracts with Spanish carrier Air Europa and Japanese airline All Nippon Airlines (ANA).

Air Europa has selected Collins Aerospace Systems, to provide a decade of exclusive nacelle MRO services support for the Boeing 787 including lease/exchange services. This long-term agreement extends an existing ten-year service agreement between the two companies where Collins Aerospace will carry on supporting the Airbus A330, Boeing 737, ATR 72 and Embraer E-195 aircraft operated by Air Europa and Air Europa Express.

ANA has awarded Collins Aerospace a ten-year support agreement for its fleet of Boeing 787-8, 787-9 and new 787-10 aircraft. The long-term maintenance agreement features Collins Aerospace's FlightSense™ program, which the airline has been a customer of for the past decade. Under the terms of the agreement, Collins Aerospace will guarantee availability of assets through access to a global distribution network, enabling minimized aircraft downtime.

**TCI Cabin Interior to become Bar Unit supplier for Airbus A350 XWB**



TCI Cabin Interior and Airbus contract signing

Photo: TCI

TCI Cabin Interior has reached an agreement with Airbus to become a Bar Unit supplier of Airbus A350 XWB aircraft. TCI, will design, certify and manufacture A350 XWB Bar Units according to upscale requests of Airlines and requirements of Airbus. This agreement has been a critical milestone for TCI being a supplier for Airbus. TCI Cabin Interior, the joint venture of Turkish Airlines and TAI (Turkish Aerospace Industries), two major Turkish aviation companies, was established to carry the strength and quality of the two exceptional companies into the Aircraft Cabin Interiors industry. TCI is located in Sabiha Gokcen Airport, Istanbul. TCI produces aircraft galleys as a current line of the products and plans to extend the product range with other cabin interior items in the near future.

**AerFin and BP Aero sign engine support agreement**



Jack Lane BP Aero and James Bennett AerFin (LR)

Photo: AerFin

AerFin, which specializes in aircraft end-of-life services, and BP Aero, the full-service aviation solutions provider, have agreed to a new long-term engine support contract.

The contract will support CFM56 and CF34 engine part overhaul at BP Aero's facilities in Irving, Texas. Attention will be paid to repairing Aerfin's extensive inventory of CF34 parts in order to meet ongoing industry demand. The deal enhances a growing relationship between the two companies which have collaborated for several years to deliver engine and component solutions to airlines and MROs.

**MRO & PRODUCTION NEWS**

**Pratt & Whitney expands GTF™ engine MRO network to include Delta TechOps**

Pratt & Whitney will expand its global network of providers that maintain the company's Geared Turbofan (GTF) engines to include Delta TechOps, the division of Delta Air Lines providing maintenance, repair and overhaul (MRO) services in North America. Delta TechOps will provide engine maintenance for PW1100G-JM and PW1500G engines. Through the Engine-Wise™ platform of services, Pratt & Whitney provides operators with a variety of aftermarket services designed to provide long-term, sustainable value. Delta TechOps will join other industry leading MRO providers located around the world that deliver high-quality maintenance support to GTF engine operators.

**GAMECO becomes Boeing supplier for MRO support**

Boeing and Guangzhou Aircraft Maintenance Engineering Company (GAMECO) have signed an MRO services agreement to work together to provide MRO support in the Asia-Pacific region. Through this agreement Boeing will provide MRO maintenance training and access to maintenance data and technical support, while GAMECO will commit to maintaining Boeing's rigorous quality standards for MRO services. "Working with GAMECO supports our commitment to meeting the needs of our customers in the Asia-Pacific region," said Ken Shaw, vice president of Supply Chain for Boeing Global Services. "By working with an MRO provider in the region, we can utilize their existing footprint and talent to best serve the needs of the local market." This agreement also bolsters GAMECO's capabilities and maintenance support of Boeing airplanes.

**CFM continues to expand LEAP aftermarket network**

Since the LEAP engine program was launched more than a decade ago, CFM has committed to both developing internal capability through CFM Services, as well as working with its partners to expand third-party MRO capability to support the industry's fastest-growing fleet. The LEAP service model is based on the highly competitive CFM56 model, which has the most open MRO environment in the industry. More than 40 shops, including third-party providers, along with CFM parent companies GE Aviation and Safran Aircraft Engines, currently perform CFM56 engine overhauls, resulting in about two-thirds of worldwide shop visits being completed by non-CFM shops. By having a similar choice of MRO providers for the LEAP engine,

**Barfield signs major component repair agreement with AerFin**



Barfield and AerFin sign agreement on component maintenance Photo: Barfield

Barfield, an Air France KLM Engineering & Maintenance (AFI KLM E&M) subsidiary in the Americas, has entered into a long-term maintenance agreement with AerFin to cover the repair of regional and single-aisle commercial aircraft components. Under this new agreement, Barfield facilities in Atlanta and Miami will provide support for approximately 170 component part numbers. Today, AerFin already utilizes AFI KLM E&M's facilities in Europe. Working with Barfield in the Americas is a natural extension to that relationship. The agreement ensures that AerFin will receive services to meet their operational requirements.

aircraft operators and owners get the benefit of competition: lower maintenance cost over the engine life cycle; a broader range of services, and higher residual values. For the LEAP fleet, there are currently four CFM internal overhaul sites on line which will expand to a total of six locations by the end of 2019, including Lafayette, Indiana; Queretaro, Mexico; Celma, Brazil; Saint Quentin-en-Yvelines, near Paris, France; Brussels Belgium; and Kuala Lumpur, Malaysia. In addition to CFM shops, in February 2018, Lufthansa Technik became the first CFM Branded Service Agreement (CBSA) licensee for the LEAP-1A engine. This agreement provides commercial and technical support to Lufthansa Technik so it can offer CFM solutions to maintain the LEAP-installed base to the highest standards. CFM offers other licenses that enable MRO providers to offer third-party LEAP engine overhaul. Air France-KLM and TAP have already announced LEAP services capability. CFM International's LEAP engine has surpassed four million flight hours in service

with 100+ operators worldwide.

**Avianca chooses Safran services for A320neo Family jetliner nacelles**

Safran Nacelles has been selected by Avianca Holdings S.A. to provide repair services and spares pool resources for engine nacelles that equip the airline's growing fleet of Airbus A320neo Family jetliners, which are powered by CFM International LEAP-1A turbofan engines. Safran Nacelles' repair services and spares resources are part of the company's NacelleLife™ support program, which ensures responsive, cost effective and high-quality services that keep airliners in operational condition while minimizing costs. Avianca Holdings S.A currently operates nine A320neo Family aircraft, composed of seven A320neo and two A321neo versions, with 24 additional A320neo Family jetliners yet to be received.

**MRO & PRODUCTION NEWS**

**Embraer signs multiple new contracts at MRO Americas**

Embraer has signed multiple new contracts at MRO Americas this week including, among others, a Pool Program Agreement with Air Botswana to support a wide range of repairable components for its E170 aircraft. The multi-year Pool Program Agreement includes full repair coverage for components and parts as well as unlimited access to a large stock of components at Embraer’s distribution center.

Furthermore, Embraer and Spain’s Binter have signed a multiyear Total Support Program (TSP) agreement to support the airline’s new E195-E2 fleet, Embraer’s second generation of E-Jets. Besides supporting the airline’s component needs, the Total Support Program also covers a large scope of pool services, all heavy checks, routine and non-routine maintenance, landing and brakes overhaul, spare parts and materials, as well as onsite support with an Embraer technical representative to ensure the highest aircraft scheduled reliability and smooth operation.

Mauritania Airlines has also chosen Embraer to support a wide range of repairable components for its two new E175s. Embraer delivered Mauritania’s first E175 at the end of March and the second E175 is slated for the second quarter of 2019. Mauritania Airlines is the first E175 operator in Africa. The multi-year Pool Program Agreement includes full repair coverage for components and parts as well as unlimited access to a large stock of components at Embraer’s distribution center. Additionally, Embraer is offering a door-to-door solution to minimize the logistical burden for the customer and the onsite stock, which is the inventory of NO-GO components Embraer provides at the customer’s facility.

**Lufthansa’s Mobile Engine Services gaining momentum in North America**



Mobile Engine Services

Photo: LHT

With the inauguration of a larger repair station in Montréal and the introduction of a new engine type to be serviced at the Tulsa, Oklahoma facility, Lufthansa Technik’s Mobile Engine Services is gaining strong momentum in North America. The new Mobile Engine Services repair station in Montréal is currently moving from inside Air Canada’s facilities to new and independent premises. With more than 2,500 m<sup>2</sup> (27,000 ft<sup>2</sup>) of floor space and 12 bays, the new building will triple the site’s operational capacity for surgical repair solutions on CFM56 engines. To support the capacity increase, Lufthansa Technik plans to expand its workforce in Montréal from today’s 30, to 80 by the end of 2021. Since January, the Mobile Engine Services site in Tulsa has had its re-modelled hangar in operation, expanding the capacity for work on V2500 engines from four bays to six, plus a fully operational test cell. Along with the expansion, Lufthansa Technik will also add the CFM56 series to its Tulsa repair and test cell portfolio, with production starting in July. First in the series will be the CFM56-5B, with initially three bays. As of today, Mobile Engine Services employs 42 mechanics in Tulsa.



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**INFORMATION TECHNOLOGY**

**MTU Maintenance** has launched its redefined services portfolio MTUPlus Intelligent Solutions at the **MRO Americas in Atlanta, Georgia**. The portfolio has been conceived to fulfil the exact and specific needs of operators, who increasingly require tailor-made solutions across the lifecycle in order to control and optimize cost, as well as those of asset owners and lessors, for whom residual value and cost of ownership is key. The portfolio has been divided into four highly tailored solutions, **PERFORMPlus**, **SAVEPlus**, **VALUEPlus**, **MOVEPlus**, and a services cluster **SERVICEPlus** for single and ad-hoc requests. “Customers rely on us for world-class engineering, intelligent creativity and dedicated support,” says Martin Friis-Petersen, Senior Vice President MRO Programs, MTU Maintenance. “It is our job to spot market trends and ensure our portfolio is meeting the customer requirements of tomorrow. As an independent service provider, our focus is going that extra mile for customers, and never giving up until the optimal solution has been found for them.” MTU Maintenance and its 5,000-strong workforce currently perform over 1,000 shop visits a year for more than 200 airline customers and close to 30 engine types. The company is certified by the **FAA**, **EASA** and **CAAC** and has over 50 country-specific certifications throughout its global network. With locations in the Americas, Europe and Asia, capabilities for on-site and near-wing services, as well as representative offices, MTU Maintenance is available wherever and whenever needed.

**Ethiopian Airlines**, the largest Aviation Group in Africa, has established a new partnership with **Immfly**, an on-board digital transformation platform for in-flight e-commerce and on-board connectivity that enables airlines to digitally improve the passenger travel experience. From its hub at Addis Ababa Bole International Airport, Ethiopian serves 120 passenger destinations across the globe, out of which over 60 are in Africa. Together with Ethiopian, Immfly will cover an extensive range of destinations across Africa, Europe, North and South America, Middle East and Asia. Immfly’s Connected Digital Services and IFE platform will be installed in 20 Ethiopian Airlines’ aircraft by this summer. The platform will be available in five languages including English, Amharic, Chinese, French, and Arabic to serve the distinct nationalities in the airline’s demographic profile.

**FLYdocs**, the aviation data and digital records management solution provider, officially launched its new Asset Management Platform

**Delta CEO highlights long-term TechOps growth**



Delta CEO Ed Bastian at MRO Americas 2019

Photo: Delta

Delta CEO Ed Bastian outlined the importance of the airline’s maintenance, repair and overhaul business to its long-term future at the annual MRO Americas conference in Atlanta. The business is expected to generate close to US\$1 billion in revenue this year, he said, and is on a path to double that figure over the next five years. Bastian highlighted the investments Delta has made in TechOps, particularly the new engine shop and test cell which recently opened. “These are investments in Delta’s future,” he said, noting that the new state-of-the-art test cell is the first built in the U.S. in more than 20 years. He also stressed the importance of Delta’s workforce development to ensure a steady pipeline of new Delta people in coming years. “We’re going to be hiring 500 AMTs just this year,” he said.

at **MRO Americas 2019**. In leading the digital innovation charge in aviation software, FLYdocs is taking a huge step forward in helping lessors and airlines realise the full benefits of embracing a paperless future. Within the cloud-based Asset Management Platform, lessors have instant access to the most business-critical information regarding the contractual obligations of their lessees to ensure ongoing compliance. Additionally, users can also tap into the data they need to manage and protect the value of their aircraft and engine portfolios throughout the term of the lease. Airlines not building up external maintenance reserves benefit from being able to more accurately predict maintenance event intervals/cost and budget for them through their own internal accruals. “One of the largest challenges for lessors and lessees has been the inability, using current software, to accurately forecast maintenance reserves and end-of-lease compensation, which can have a major impact on business health and asset value,” comments Mark Hadfield, FLYdocs’ Head of Asset Management. “That’s until now! Using real-

world expertise from within the FLYdocs team, we’ve built the most advanced algorithms for calculating precise and accurate maintenance reserve and EOL compensation cash flow forecasts to help reduce risks and allow users to make financial decisions with confidence.”

**OTHER NEWS**

**National Aviation Services (NAS)** will offer comprehensive ground handling and cargo services in Mozambique beginning July 2019. This covers ramp, passenger and engineering services and include check-in, boarding, ramp handling, maintenance, cleaning as well as import and export cargo handling and storage, for scheduled as well as ad hoc airlines at all airports in Mozambique. NAS is committed to investing US\$50 million in Africa over the next three years. Mozambique is the first African country to benefit from this investment. With new infrastructure

**PASSENGER STATISTICS - MARCH**

- **WestJet** has released March 2019 traffic results with a load factor of 87.0%, an increase of 1.4 points year over year. Traffic increased 7.3% year over year, while capacity grew 5.5% over the same period. WestJet welcomed an additional 104,000 guests in March, a year-over-year increase of 4.8%.
- **Air France KLM Group** (incl. **Transavia**) has reported that March traffic increased 2.8% compared to the previous year, while capacity was up 3.1%. The Group load factor for March was 87.6%, down 0.3 points compared to March 2018.
- **JetBlue Airways** has released its preliminary traffic results for March 2019. Traffic in March increased 7.9% from March 2018, on a capacity increase of 12.6%. Load factor for March 2019 was 85.3%, a decrease of 3.7 points from March 2018.

**OTHER NEWS**

and fresh resources, equipment, technology and training, NAS will ensure the highest levels of quality and security for international airlines operating at the various airports in the country.

**AeroGuard** Flight Training Center has launched its new commercial pilot training facility at the Georgetown Municipal Airport near Austin, Texas. The aviation industry needs pilots. As industry leaders in commercial pilot training, AeroGuard Flight Training Center sets a higher standard for safety, quality of training, and career success. Its new Austin flight school is a critical part of helping to meet that demand. AeroGuard's accelerated curriculum helps cadets go from zero experience to being paid airline pilots in as little as two years. The Flight Training Center's unique student-focused culture attracts cadets from all over the world who want to quickly master the knowledge and skills they need to launch an exciting career in aviation. The Austin flight school is ideally located to not only train students from Texas, but also students across the U.S., and beyond, offering programs for international airlines, universities, and their students.

In March 2019, the **Lufthansa Group** airlines welcomed more than 11 million passengers. This shows an increase of 1.7% compared to March 2018. The available seat kilometers were up 4.9% over the previous year, at the same time, sales increased by 4.1%. In addition, as compared to March 2018, the seat load factor increased by 0.7 percentage points to 80.5%. This is partially due to the postponement of the Easter holidays, which fell in March last year. The network airlines **Lufthansa**, **SWISS** and **Austrian Airlines** carried a total of around 8.4 million passengers in March, 2.5% more than in the same month last year. The number of seat-kilometers on offer was increased by 4.4% compared with the previous year. Sales rose by 3.2% in the same period. This reduced the seat load factor by 1.0 points to 80.2%. **Eurowings** (including **Brussels Airlines**) carried around 2.9 million passengers



Fraport and Deutsche Bahn to test artificial intelligence

Photo: Fraport

FRAnny is an expert on **Frankfurt Airport**, and is able to answer a wide range of questions – including the correct gate, the way to a specific restaurant, and how to access the free Wi-Fi. The robotic concierge is a cooperative project between **Fraport AG**, the operator of **Frankfurt Airport (FRA)**, and **DB Systel GmbH**, **Deutsche Bahn's** dedicated IT service provider. Travelers at major transportation hubs, such as airports and train stations, are very often in need of guidance. In these scenarios, digital assistants and robots can support human personnel by fielding routine inquiries, thus enhancing the customer service offering. A six-week trial at Frankfurt Airport, Germany's largest aviation hub, will help evaluate FRAnny in terms of functionality, customer acceptance and its practical usefulness in everyday situations. FRAnny is based on an artificial intelligence and a cloud-based voice-user interface (VUI) that can be deployed in a variety of forms – including in chatbots, voice assistants and robots. This digital customer service system was developed by a team of Deutsche Bahn IT experts. Using data drawn from the airport's information system, FRAnny is able to understand and answer questions relating to travel, airport facilities and more. In addition to providing flight information, FRAnny is well versed in small talk and can communicate in German, English and seven other languages. Fraport and Deutsche Bahn have been jointly exploring the potential of artificially intelligent, voice-based customer service systems since 2017. The first pilot took place at Frankfurt Airport in spring 2018 using FRAnny's predecessor: the four-week field trial was very successful. After approximately 4,400 interactions, 75% of passengers rated their exchange positively. Based on the feedback received, both the artificial intelligence (AI) component and the robot's user interface were further improved. The more recent trial underscores both companies' commitment to ongoing innovation in artificial intelligence and robotics. Moreover, it puts the implemented improvements through their paces under real-world conditions

**OTHER NEWS**

in March. Among this total, 2.6 million passengers were on short-haul flights and 295,000 on long-haul flights – this corresponds to a reduction of 2.1% on short-haul routes and an increase of 15.3% on long-haul routes compared with the previous year. A 7.3% increase in capacity in March was offset by an 8.2% increase in sales, resulting in an 82.1% increase in seat load factor of 0.7 points.

**BendixKing**, a business unit of **Honeywell**, has unveiled its new AeroVue Touch Integrated Flight Deck at the 2019 AERO Friedrichshafen trade show. This advanced Class III cockpit system includes three smart, high-resolution touchscreen displays that incorporate all required functions into one lightweight, panel-mounted flight deck. The system is easily customizable, allowing aircraft manufacturers to create their own unique interface that shows different information applicable to a variety of aircraft, including electric aircraft and future vehicles for urban air mobility. By upgrading to the AeroVue Touch Integrated Flight Deck, operators get a connected cockpit that enables live flight-data streaming to the ground in real time for enhanced search and rescue and flight analysis. It can also eliminate the need to return aircraft to maintenance centers to update navigation charts by allowing operators to update them wirelessly, wherever the aircraft is located.



Photo: Avion Express launches MPL Training Programme

**Avion Express**, one of the largest narrow-body ACMI operator, has launched the MPL Training Programme with its long-term partner **BAA Training**, one of the biggest independent aviation training centres in Europe. The competency-focused MPL Training Programme, that is set to begin in August 2019, is based on a multi-crew training that imitates the actual cockpit experience working at the airline. It will cover all stages of pilot training, as well as integrate Avion Express procedures from the very first days. Thus, after completing the comprehensive training, the newly qualified pilots will be fully submerged in the company’s culture and ready to start flying right away. Other than training under the multi-pilot cockpit conditions, the new MPL Training Programme will bring concrete job prospects and security, beneficial both for pilots and the airline. “Launching the Programme will mean that the pilots will be ready to take the First Officer seat in Avion Express aircraft immediately after the course completion. The comprehensive skills that they will receive during the MPL Training Programme will bring the best efficiency to us as well as our clients,” says Stasys. BAA Training is a long-term partner of Avion Express. As part of this partnership, BAA Training has been providing the full-flight simulators for the pilot training of Avion Express. Additionally, the two companies created an Ab-Initio Cadet Programme for people with no flying experience and Type Rating Training Programme. 2.5 million passengers travelled with SAS in March, an increase of some 70 000 compared to last year. Compared to March 2018, capacity and the number of passengers in scheduled traffic increased by 1.1% and 3.1%, respectively. The load factor for March was down by 2.8 points to 70.4% when compared to the previous year.

**INDUSTRY PEOPLE**



Scott Butler

- Ascent Aviation Services has announced that **Scott Butler** has joined the company as Chief Commercial Officer (CCO). In his new position Butler reports directly to **Dave Queiro**, President, assuming responsibility for all Sales, Marketing and Customer Service functions. Butler and his team are also coordinating with the company’s Operations group to ensure that all opportunities are thoroughly evaluated in order to effectively increase its volume of work. Butler and his team are in continued coordination with other Operational and Financial departments to ensure the continued efficient and productive growth of Ascent operations. Butler holds a degree in Aviation Human Factors and Aerospace Engineering from the University of Illinois at Urbana-Champaign. He is also a licensed multi-engine commercial pilot. His management experience includes more than

ten years in the aerospace industry. Prior to joining Ascent Aviation Services, he was Director of Sales for Zodiac Aerospace. Throughout his broad tenure, Butler has held leadership positions in Program Management, Engineering and Operations Management at TE Connectivity, and Rockwell Collins.



Christobal Henner

- AD SOFTWARE, the France-based CAMO and MRO software editor, has reinforced its international sales team with the appointment of **Christobal Henner** as Sales Director in charge of sales and marketing strategy and customer relations. This appointment is in response to AD SOFTWARE’s growing portfolio of customers and the recent partnership with ATR which led to increased visibility for AD SOFTWARE and additional solutions available to aircraft operators around the world. AD SOFTWARE has been providing MRO, CAMO and Supply Chain IT solutions for aircraft operators, MRO shops and CAMO or-

ganizations for 20 years. It has 60 customers worldwide and enjoys a strong and positive reputation in the industry. The company needed additional resources to face the growth and facilitate interactions with prospects and customers.



Kevin Geissler

- GA Telesis has appointed **Kevin Geissler** as Vice President Aviation Lease Solutions. Geissler began his career at Curtiss Wright Accessories, the aftermarket repair business of the OEM, which was subsequently acquired by GA Telesis in 2008. Geissler spent several years post acquisition in the company’s MRO services unit as a business unit controller and as Corporate Assistant Controller before being promoted to Vice President and Corporate Controller in 2013. Geissler holds a bachelor’s degree in Finance from the University of North Carolina at Wilmington. He will be responsible for oversight and development of the company’s inventory lease-

INDUSTRY PEOPLE

ing business as well as its thriving APU and landing gear leasing business. The company currently has a significant inventory lease portfolio consisting of Boeing 737, 747, 767, 777, 787 as well as Airbus A320, A330 and A350 rotatable components.

- Chief Financial Officer (CFO) **Geir Karlsen** has been appointed deputy CEO of Norwegian. Karlsen joined Norwegian as CFO in April 2018. He has extensive experience from listed companies within shipping and offshore. Over the last 12 years Karlsen has held various CFO positions with international companies such as Golden Ocean Group and Songa Offshore. Before joining Norwegian, he held the position of Group CFO at London-based Navig8 Group. Karlsen has a degree in Business Administration from BI Norwegian Business School.



Donna Chase

- TurbineAero, headquartered in Chandler, AZ., has appointed the new Vice President Sales & Marketing leading their global sales team. **Donna J. Chase** joined TurbineAero after spending 32 years in the aerospace/aviation industry in a variety of leadership roles. The last 26 years of those years were at Honeywell Aerospace which included running a US\$500 million global business aviation aftermarket business, consisting of avionics, mechanical and electromechanical components, software solutions and services.



Guillaume Faury

- Airbus shareholders passed all resolutions at its 2019 Annual General Meeting (AGM), including the appointment of **Guillaume Faury** as an Executive Member of the Board of Directors for three years.

At a Board Meeting immediately following the AGM, Guillaume Faury was formally appointed Airbus Chief Executive Officer (CEO), replacing outgoing CEO **Tom Enders** whose Board Mandate expired at the close of the AGM. Airbus announced last October that its Board of Directors had selected

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Faury, previously President of Airbus Commercial Aircraft, as its next CEO.



John Peery

- **John Peery** has been promoted to President & Chief Operating Officer of Los Angeles-based Mercury Air Cargo Inc., increasing his responsibilities over all of Mercury Air Cargo' subsidiaries and affiliates and managing over 1100 employees. "John's business skills have helped grow Mercury into the largest air cargo handling company at LAX, SFO and SJC. We're very excited about his growth plans for all of Mercury's cargo businesses going forward," said **Joseph A. Czyzyk**, Chairman & CEO of Mercury Air Group, Inc., the parent company of Mercury Air Cargo.

- Embraer S.A., the Brazilian plane maker, has announced the nomination of **Francisco Gomes Neto** to take over from Paulo Cesar de Souza e Silva in the position of President and CEO, which should become a formal appointment after the election process which will be held at the forthcoming General Shareholder's Meeting on April 22. Neto is currently the president of Marcopolo, the Brazilian bus and coach manufacturer.

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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
A321-231	Aircraft Recycling Intern.	V2533-A5	3241	2007	Q4/2019	Lease	Gabrielle Du	gabrielle.du@ariaero.com	+852 37537347
A321-231	Aircraft Recycling Intern.	V2533-A5	3251	2007	Q4/2019	Lease	Gabrielle Du	gabrielle.du@ariaero.com	+852 37537347
A330-200	DVB Bank	CF6-80E	814	2007	Q2/2020	Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
A330-200	Castlelake	CF6-80E1A4	473	2002	Q4/2019	Lease	Michael Hackett	Michael.hackett@castlelake.com	+44 20 7190 6120
A330-200	Castlelake	CF6-80E1A4	489	2003	Q4/2020	Lease	Michael Hackett	Michael.hackett@castlelake.com	+44 20 7190 6120
A330-200	TrueAero Asset Management	CF6-80E1A4/B	882		Apr 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A330-200	TrueAero Asset Management	CF6-80E1A4/B	901		Apr 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A330-200	TrueAero Asset Management	CF6-80E1A4/B	932		May 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A330-300	DVB Bank	Trent 772B-60	1485	2014	Q1/2020	Sale / Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
B737-700	Kellstrom Aerospace	CFM56-7B26	28210	1998	Now	Sale	Michael Garcia	info@kellstromaerospace.com	+1 (847) 233-5800
B737-5H6	Bristol Associates	CFM56-3C1	26445	1992	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B737-8AS	GA Telesis	CFM56-7B24	33813	2004	Now	Lease	Mauro Francazi	mfrancazi@gatelesis.com	+44 7387 418679
B737-8AS	GA Telesis	CFM56-7B24	33814	2004	Now	Lease	Kevin Ford	kford@gatelesis.com	+64 21 747 109
B737-800	DVB Bank	CFM56-7B27	28178	1999	Q4/2019	Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
B737-800	ORIX Aviation	CFM56-7B24E	40317	2012	Q4/2019	Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
B737-800	ORIX Aviation	CFM56-7B24	33641	2007	Q2/2020	Lease	Matthew Gialopsos	Matthew.Gialopsos@orix.ie	+353 83 167 2233
B737-800	Willis Lease				soon	Sale / Lease	Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775
B757-200PCF	Wahoo Aviation	RB211-535E4B	22210	1984	Now	Sale	Tim Corley	tcorley@wahooaviation.com	+1 (360)870-9172
B747-400	Bristol Associates		28812	1999	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B747-400	Bristol Associates		30023	2000	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B757-223 (7x)	Jetran	RB211-535E4B	various	91/92	Now	Lease	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
(2) B787-800					soon	Sale / Lease	Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775

## Regional Jet / Turboprop Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
CRJ-200LR	Regional One	CF34-3B1	8062	2006	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
CRJ-700	Regional One	CF34-8C5B1	10205	2005	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
Dash 8 Q400	DVB Bank	PW150A	4160	2007	Now	Sale	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
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
<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>
CF34-10E5A1	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@wernereraero.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
(2) CF34-8C5B1	Feb 19 - 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
<b>CF&amp; Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(2) CF6-80C2A2	Now - Lease	Castlelake	Stuart MacGregor	stuart.macgregor@castlelake.com	+44 2071906138
<b>CFM Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(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) CFM56-7B26	Soon - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
(1) CFM56-3B1	Soon - Sale/Lease/Exch.		David Desaulniers	leasing@willislease.com	+1 415 516 4837



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# THE AIRCRAFT AND ENGINE MARKETPLACE

## 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) CFM56-7B20/2	Now - Lease	CFM Materials	Jimmy Hill	jimmy.hill@cfmmaterials.com	+1 -214-988-6670
(1) CFM56-7B26/2					
(1) CFM56-5B	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@wernerero.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>GENx Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) 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>
(1) LEAP-1A33	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
(2) LEAP-1B28	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				
(1) 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) 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 Kryz	rkryz@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) V2527-A5	Soon - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
(1) V2533-A5	Now - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
(1) V2533-A5	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@wernerero.com	+1-703-402-7430

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

Description		Company	Contact	Email	Phone
(1) A320-200 Landing Gear	Now - Sale/Lease/Exch.	TrueAero, LLC	Matt Parker	mparker@trueaero.com	+1 469-607-6110
A340-300/A330 Landing Gear	Now - Sale/Lease/Exch.				
A340-600 Landing Gear	Now - Sale/Lease/Exch.				
B777-200 Landing Gear	Now - Sale/Lease/Exch.				
Trent 552 Inlet Cowls & Fan Cowls	Now - Sale/Lease/Exch.				
Trent 892 Inlet Cowls and Fan Cowls	Now - Sale/Lease/Exch.				
CFM56-5B Inlet Cowls and Fan Cowls	Now - Sale/Lease/Exch.				
V2500-A5 Inlet Cowls & Fan Cowls	Now - Sale/Lease/Exch.				
CF6-80E Trust Reversers, Inlets & Fan Cowls	Now - Sale/Lease/Exch.				
APUs (2) GTCP331-500B, (1) APS3200	Now - Sale/Lease/Exch.				
767-300ER 413K, 737-300 LANDING GEAR	Now - Sale/Lease/Exch.	AZURE RESOURCES INC.	Jeff Young	jeff@azures.com	1-954-249-7935
GTCP36-300A, GTCP85-98DHF APU	Now - Sale/Lease/Exch.				
A320 Nose Landing Gear	Now - Sale/Lease/Exch.				
CFM56-3 LPT MODULE, REPAIRED	Now - Sale/Lease/Exch.				
CFM56-3 ENGINE STAND	Now - Lease				
(1) GTCP36-150RJ, (2) GTCP36-100M,	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) RE220RJ, (1) PW126 RGB, (1) PW901A					
(1) APS1000-C12, (1) APS1000-C3					
GTCP131-9A (2), GTCP131-9B(2)	Now - Lease	REVIMA APU	Olivier Hy	olivier.hy@revima-apu.com	+33(0)235563515
GTCP331-200, GTCP331-250	Now - Lease				
APS500C14(3), APS1000C12(2), APS2000	Now - Lease				
APS2300, APS3200(2), APS5000(2)	Now - Lease				
PW901A(4), PW901C(2)	Now - Sale / Lease				
TSCP700-4E	Now - Sale				
(1) PW901A APU	Now - Sale	Royal Aero	Gary MacLeod	gary@royalaero.com	+44 (0)141 389 3014
(1) GTCP131-9B	Now - Sale / Lease	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	rlsley@logix.aero	+1 602 517 8210
APS3200, APS2300, GTCP85-129H					
APU GTCP 331-500	Soon - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
Engine stands now available	Now - Lease				
ENGINE STANDS: Trent 800, PW4000 112"/V2500		National Aero Stands		support@stands.aero	+ 1 305-558-8973
/ CFM56/ PW2000 & Bootstrap kits					
GTCP131-9A, GTCP 131-9B	Now - Sale / Lease	Werner Aero Services	Julien Levy	jlevy@Wernerero.com	+1 201-674-9999
737-800 Winglets	Now - Sale / Lease				
737-700 & 737-800 Landing Gear	Now - Sale / Lease				
(3) APS 2300	Now - Sale/Lease/Exch.		Mike Cazaz	mike@wernerero.com	+1 201-661-6804
(2) PW901A, (1) PW901C(1), PW125B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368