

Weekly Aviation Headline News

WORLD NEWS

Air France to operate new Cork to Paris services

Cork Airport in Ireland will welcome Air France's double frequency on the Cork to Paris-Charles de Gaulle route, with the addition of a second daily service from April to October 2020. The airline will now operate a twice daily service for summer 2020, with the addition of a new early morning flight from Cork and a late evening service from Paris. These new flights will complement the existing Cork to Paris-Charles de Gaulle daily schedule.

FedEx fleet modernisation

FedEx Express has announced introduction of a new Boeing 767F cargo jet into its European network. The new Boeing 767F can carry up to 91,000 pounds of cargo, which represents an increase in capacity of approximately 16% compared to the aircraft it replaces. It is also 9% percent more fuel-efficient than its predecessor, which, combined with the higher capacity, reduces emissions by 21% per pound. It aims to provide additional capacity on existing Madrid-Paris route, supporting Spanish businesses to export to Europe, grow their business and ship further.

WFS gets GDP accreditation in South Africa

Worldwide Flight Services (WFS) has become the first air cargo handling company in South Africa to be awarded Good Distribution Practice (GDP) certifications for its temperature-controlled pharma facilities, aligned to ISO9001:2015, in Johannesburg and Cape Town. This latest WFS investment to upgrade and certify its pharma handling operations at both airports follows a 15% increase in these product volumes into South Africa over the past two years.



Airlines are in ongoing discussions with Boeing.

Photo: Boeing

Boeing 737 MAX entry to service While airlines' count the cost

On March 13 this year, a directive from the Federal Aviation Administration (FAA) grounded all U.S.-registered Boeing 737 MAX aircraft. The American Airlines fleet currently includes 24 MAX aircraft with an additional 76 aircraft on order, of which five were scheduled to be delivered in the third quarter of this year. As a result of this directive, American cancelled 9,475 flights in the third quarter of 2019. The company estimates that the cancellations in the third quarter negatively impacted pre-tax income by approximately \$140 million.

The company has removed all MAX flying from its flight schedule through January 15, 2020. With the flight cancellations extending through the remainder of 2019,

sults, Gary C. Kelly, Chairman of the Board and Chief Executive Officer at Southwest Airlines, stated, "Our third quarter 2019 record financial performance was notable considering an estimated \$210 million reduction in operating income due to the continued grounding of the Boeing 737 MAX 8 aircraft. Notwithstanding this challenge, we generated record third quarter operating and unit revenues; solid margins; strong cash flows and returns to Shareholders; and a healthy profitsharing accrual for our employees. I am ex-

"Boeing stated they are targeting regulatory approval of MAX return to service in fourth quarter 2019."

Gary C. Kelly, Chief Executive Officer at Southwest Airlines

the company now expects the MAX cancellations will negatively impact its full-year 2019 pre-tax income by approximately \$540 million.

Announcing third quarter 2019 re-

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...continued from page 1

tremely grateful to our people for their unwavering commitment to the highest levels of customer service and applaud them for one of the best third quarter operational performances in our history.

"We are engaged in ongoing discussions with The Boeing Company (Boeing) regarding compensation for damages related to the MAX groundings. The operating income reduction from the MAX groundings is estimated to be \$435 million for the nine months ended September 30, 2019, and we expect the damages to continue to grow into 2020. We have not reached a settlement with Boeing, and no estimated set-

tlement amounts have been included in our third quarter 2019 results.

"Boeing stated they are targeting regulatory approval of MAX return to service in fourth quarter 2019. Upon a rescission of the FAA order to ground the MAX, we continue to estimate it will take us one to two months to comply with applicable FAA directives, including all necessary pilot training. As such, the MAX has been removed from our flight schedule through February 8, 2020. The FAA will determine the timing of MAX return to service, and we offer no assurances that current estimations and timelines are correct."

AIRCRAFT & ENGINE NEWS

NAC delivers one new Embraer E190 on lease to HOP!

Nordic Aviation Capital (NAC) has delivered one new Embraer E190, MSN 19000770, to HOP! on lease. This is the fifth aircraft to deliver as part of a seven-aircraft lease agreement. HOP! is a subsidiary airline of the Air France Group. The airline operates flights for Air France in several regions of France and Europe.

CDB Aviation delivers first of four Embraer E190 aircraft to Amazonas

CDB Aviation, a wholly owned Irish subsidiary of China Development Bank Financial Leasing Co., (CDB Leasing), has delivered the first of four Embraer E190 aircraft to Bolivia-based Amazonas Línea Aérea (Amazonas). The Embraer regional jets, configured with 110 seats in a single-class layout, will modernize the Amazonas fleet, offering more than double the capacity. The E190s will serve the carrier's growing route network, which connects its main hub at Santa Cruz de la Sierra's Viru Viru Airport to domestic and international destinations. The airline will also operate the E190s at Montevideo's Carrasco International Airport in the future. The three remaining jets are anticipated to join the carrier's fleet

Embraer signs US\$ 1.4 billion business jet deal with Flexjet

Embraer has inked a purchase agreement with Flexjet, one of the global leaders in private jet travel. The deal comprises a fleet of Embraer business jets, which includes the recently certified Praetor jets and the Phenom 300. Valued at up to US\$ 1.4 billion, at current list prices, this deal was included in the 2019 second-quarter backlog, with deliveries starting in the fourth quarter of 2019. With this purchase agreement, Flexjet becomes Embraer's Praetor fleet launch customer.



Embraer and Flexjet sign US\$1.4 billion fleet deal

Photo: Embraer

between the end of October this year and early January 2020.

TrueNoord places ATR 72-600 on lease to US-Bangla

TrueNoord, the specialist regional aircraft lessor, has placed an ATR 72-600 aircraft from its fleet on a new lease programme for six years with expanding Bangladeshi domestic and international

operator, US-Bangla. Previously under a running lease agreement with HOP! the aircraft supplements US-Bangla's recent acquisition of new ATR 72-600s which now form the backbone of the airline's modern regional fleet. TrueNoord agreed on an early retirement of the aircraft at HOP! to assist them in the phase-out of their ATR fleet after HOP! decided to cease operations of the type earlier in 2019.

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Delta and ALC sign lease agreements for two Airbus A330-900neo aircraft



Delta Air Lines A330-900

Photo: Airbus

Air Lease Corporation has signed long-term lease agreements with Delta Air Lines for two new Airbus A330-900neo aircraft. The first aircraft is scheduled to deliver to the airline in Fall 2020 and the second aircraft will deliver in early 2021 from ALC's order book with Airbus. "These two incremental aircraft represent an opportunistic play to fulfill our near-term wide-body aircraft needs for our customers and employees as older-generation aircraft are retired and to support measured growth in 2021," said Greg May, Delta's Senior Vice President – Fleet and Technical Procurement. We're also pleased that the engines on these aircraft will be maintained by Delta TechOps professionals through our partnership with Rolls-Royce."

Two Airbus H125 helicopters enter Austrian Ministry of Interior service

Austria's Ministry of the Interior (BMI) has formally introduced into service two Airbus H125 helicopters, equipped for law enforcement and rescue missions. The aircraft join BMI's existing fleets of Airbus H135 and AS350 helicopters and will operate from Innsbruck and Salzburg on behalf of the Tyrolean Government in the Tyrol and other mountainous areas of Austria. The H125 was selected by the BMI due to its versatility and all-round performance which are critical to delivering mission availability in Austria's Alpine regions throughout the year.



Airbus H125 helicopter

Photo: Airbus Helicopters

Garuda Indonesia to operate two 737-800 converted freighters from GECAS



Garuda Indonesia to lease two 737-800 Boeing-converted freighters from GECAS

Photo: GECAS

Garuda Indonesia and GECAS have entered into a lease agreement for two 737-800 Boeing-converted freighters (BCF). The passenger-converted aircraft are slated to be phased in mid-2020 and will provide additional capacity to Cargo Garuda Indonesia, the Indonesian National carrier's strategic business unit with three freighters currently in use. Boeing 737-800 freighters are perfectly suited to short- and mid-range routes which form the basis of Garuda's scheduled network. From its base Cargo Center at Soekarno-Hatta International Airport near Jakarta, the carrier provides dedicated cargo services for mail and express shipments as well as e-commerce and general cargo shipments, accommodating cross-border online purchases.

AIRCRAFT ECONOMIC LIFE SUMMIT

18 November 2019, Gibson Hotel, Dublin, Ireland



Highlights:

- ▶ Identify the factors behind some of the recent turbulent industry events
- ▶ Consider the impact of OEM joint ventures on Products & Values
- ▶ Get insights into the demand for Boeing's 7K7 and for a new turboprop
- ▶ How has long-term outlook changed for NEO and MAX following their changes
- ▶ Understand the dynamics of a downturn and how to prepare
- ▶ Find out how to maximise end of life values
- ▶ Debate whether economic lives will be getting shorter

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Vistara finalizes LEAP-1A engine order

Vistara, a joint venture of Tata Sons and Singapore Airlines, has finalized an engine order for 26 LEAP-1A engines to power 13 new Airbus A320neo aircraft, in addition to the 37 leased aircraft from the A320neo family, ordered in July 2018 and the ten leased aircraft already in service. Alongside this engine order, Vistara has signed a long-term Rate Per Flight Hour (RPFH) agreement for the maintenance of the 120 LEAP-1A engines that power 60 Airbus A320neo and A321neo aircraft in service or in order. The combination of the RPFH agreement and the engine order is valued at more than US\$2.4 billion at list price. RPFH agreements are part of CFM's portfolio of flexible aftermarket support packages. Under the terms of the agreement, CFM Services guarantees maintenance costs

for the Vistara's LEAP-1A engines on a dollar-per-engine-flight-hour basis. The Delhi-based airline took delivery of the first LEAP-1A-powered Airbus A320neo in May 2017 and currently operates ten leased LEAP-1A-powered Airbus A320neo aircraft. As part of the airline's aggressive expansion plan, Vistara will take delivery by the end of this month of its first LEAP-1A-powered A320neo aircraft out of the latest order.



Vistara

Photo: AirTeamImages

Lilium completes early flight testing and builds first manufacturing facility



Photo: Lilium Jet

Lilium, the Munich-based startup developing a revolutionary on-demand air mobility service, has released new footage of its all-electric Lilium Jet as it has completed its first phase of flight testing, a milestone it reached less than six months since starting its flight test campaign. The Lilium Jet, the first five-seater, all-electric, vertical take-off and landing jet, was revealed in May 2019 and since then has been put through its paces at an airfield in southern Germany. The emissions-free aircraft, which will be able to complete journeys of up to 300 km in one hour on a single charge, has now been flown at speeds exceeding 100 km/h, in increasingly complex maneuvers. The new footage reveals, for the first

time, the aircraft transitioning from vertical flight to level flight. This signature maneuver, first completed just weeks after the aircraft's maiden flight, is one of aerospace's greatest challenges and is what gives the Lilium Jet its significant range advantage, with its two sets of wings contributing to much higher levels of efficiency than in aircraft lifted solely by rotors. With a range of 300 km, the Lilium Jet will be capable of completing much longer journeys than the vast majority of its competitors, allowing it to connect entire regions rather than just making short trips across a single city. Lilium has also completed its first dedicated manufacturing facility, an important step towards preparing the company for serial production of the Lilium Jet. The first manufacturing facility, a 3,000 m² space located at the company's headquarters, will soon be complemented by a second, much larger, facility which is already under construction at the same site. Combined, they will support Lilium's aim of producing hundreds of aircraft a year by the time commercial services begin in 2025.

Volocopter air taxi completes first manned flight over Singapore's Marina



Photo: Volocopter air taxi performs first flight in Singapore

Volocopter, the pioneer in Urban Air Mobility (UAM), successfully completed its first manned flight over Singapore's Marina Bay on October 22. This was the last trial of a demanding test series to verify and validate the ability of Volocopter air taxis to fly over the area. Government authorities including the Ministry of Transport (MOT), the Civil Aviation Authority of Singapore (CAAS), and the Economic Development Board (EDB) supported Volocopter in this testing phase and will continue to do so in the future. This flight kicks off Volocopter's efforts to bring commercial air taxi services to Singapore. A 2X model of the company's test series flown by a pilot onboard was used. The flight covered a distance of approximately 1.5 km and lasted for two minutes at an average cruising height of 40 m. Leading up to the flight, the aircraft had undergone intensive testing in Germany for several months, following which, a rigorous flight test program to verify the Volocopter 2X aircraft performance under local environment was conducted at Seletar Airport in accordance with CAAS.

Rolls-Royce unveils new Pearl engine family member for business aviation

Rolls-Royce has unveiled the Pearl® 700, the latest addition to its Pearl engine family for business aviation. The purpose-designed engine, the most powerful in the Rolls-Royce business jet propulsion portfolio, is the exclusive powerplant for the brand-new Gulfstream G700. More than 3,200 business jets in service today are powered by Rolls-Royce engines. The Pearl 700 is the newest member of the state-of-the-art Pearl engine family, first introduced in 2018 and marks the seventh new civil aerospace engine introduced by Rolls-Royce over the past decade. Gulfstream's selection of the Pearl 700 to power its new flagship aircraft reaffirms Rolls-Royce's position as the leading business aviation engine manufacturer.



Photo: Rolls-Royce unveils new Pearl 700 engine

Czech Airlines orders four A220s and up-sizes three A320neos to A321XLRs



A321XLR in Czech Airlines' livery

Photo: Airbus

Czech Airlines has ordered four Airbus A220-300 aircraft and opted for additional range by up-sizing a previous order for three A320neos to A321XLRs. The two fuel-efficient aircraft types will complement Czech Airlines' existing fleet of six A319s and one A330-300 and will allow it to continue extending its network to reach more markets. The airline will also benefit from the commonality of Airbus Family aircraft. The A220-300 will be fitted with 149 seats, while the A321XLR will cater for top comfort in a two-class layout with 195 seats.

Drukair takes delivery of latest-generation ATR 42-600



ATR 42-600 Drukair

Photo: ATR

Bhutanese national flag-carrier Drukair has taken delivery of a brand-new ATR 42-600 aircraft. The latest-generation turboprop aircraft, which will be used on the airline's domestic and international routes, was chosen for its outstanding operational performance in challenging conditions. The airline's ATR serves small airports in the Himalayan Mountains and links Bhutan with Kathmandu, Kolkata and Dhaka. Through the introduction of the -600 series' latest-generation Standard 3 avionics suite, Drukair will benefit from RNP AR 0.3/0.3 which further enhances airfield accessibility and operational performance. Drukair's ATR is equipped with the ClearVision™ system, which will provide pilots with outstanding vision and situational awareness. The aircraft will feature a very comfortable 40-seat cabin with generous pitch and stowage.

Spirit Airlines and Airbus sign MoU for up to 100 A320neo Family aircraft

Airbus and Florida-based ultra-low-cost carrier Spirit Airlines have agreed to a Memorandum of Understanding for the airline to acquire up to 100 A320neo Family aircraft. Spirit announced its intention to place firm orders for a mix of A319neos, A320neos, and A321neos to meet its future fleet requirements. "This new order represents another milestone for Spirit," said Spirit Airlines' President and CEO Ted Christie. "The additional aircraft will be used to support Spirit's growth as we add new destinations and expand our network across the U.S., Latin America, and the Caribbean. We look forward to working with our valued partners at Airbus to finalize our agreement."



Ultra-low-cost carrier Spirit Airlines signs MoU with Airbus for 100 A320neo Family aircraft

Photo: Airbus

The German Armed Forces take delivery of first NH90 Sea Lion helicopter



NH90 Sea Lion for the German Armed Forces

Photo: Airbus Helicopters/ Patrick-Heinz

Airbus Helicopters has delivered the first NH90 Sea Lion naval multi-role helicopter to the Federal Office of Bundeswehr Equipment, Information Technology and In-Service Support (BAAINBw), with a further two to be delivered by the end of the year. In total, 18 Sea Lions have been ordered for the Germany Navy, with deliveries expected to be completed in 2022. The selection of the Sea Lion, as the successor to the Sea King, was made in March 2013 and the corresponding contract was signed in June 2015. When deployed, NH90 Sea Lions will take on a wide range of roles including search and rescue (SAR), maritime reconnaissance, special forces, as well as personnel and material transportation missions. In addition to its land-based use, the Sea Lion will also operate on Type 702 (Berlin class) combat support ships.

MRO & PRODUCTION NEWS

Delta TechOps and Austrian Airlines sign multi-year engine maintenance agreement

Delta TechOps and Austria's largest carrier, Austrian Airlines, have signed an engine maintenance agreement at the MRO Europe conference in London. The exclusive agreement covers PW4060 engine maintenance for up to six years supporting the airline's Boeing 767 fleet. As the maintenance division of Delta Air Lines, Delta TechOps has numerous years of experience both operating and maintaining PW4000 engines. Delta TechOps will conduct scheduled full-overhaul shop visits. In addition to regularly scheduled maintenance on these engines, Delta TechOps will support any unscheduled engine work as required.

Atitech signs new maintenance agreements with Eurowings and Austrian Airlines

Eurowings has chosen Atitech, the independent MRO located in Naples, Italy, as its new partner to take care of airframe maintenance needs. In a meeting held at the MRO Europe in London, the Boards of Eurowings and Atitech signed the contract, starting a long-term cooperation. Furthermore, Atitech has signed a long-term service agreement for airframe maintenance with Austrian Airlines.

StandardAero signs PW100/PT6A/JT15D support agreement with Carolina Aviation Technical Services

StandardAero has signed a Services Agreement with Carolina Aviation Technical Services (C.A.T.S.), a Part 145 repair station based at Statesville Regional Airport (SVH) in North Carolina. The Agreement – which extends StandardAero's long-running relationship with C.A.T.S. – covers the provision of maintenance, repair and overhaul (MRO) services for the Pratt & Whitney PT6A and PW100 turboprop engines and the JT15D turbofan. C.A.T.S. is a certified maintenance center for a wide range of aircraft from various manufacturers, including Beechcraft, Cessna and Dornier, and an avionics dealership for Honeywell and FDS. The recently signed services agreement with StandardAero will allow C.A.T.S. to ensure that its customers benefit from seamless engine MRO support, minimizing downtime while locking in competitive pricing. Commenting on the agreement, Peter Sistare, Owner of C.A.T.S. said: "We are pleased to be able to extend our relationship with StandardAero. Most importantly they provide the right services to assist us with our customers in the field."

Qatar Executive announced as launch customer for all-new Gulfstream G700



Gulfstream introduces the all new Gulfstream G700

Photo: Gulfstream

On the eve of the 2019 National Business Aviation Association Convention & Exhibition in Las Vegas, Gulfstream has unveiled its all-new flagship G700 while announcing that Qatar Executive will be the launch customer. According to Gulfstream, the G700 blends proven ultralong-range, speed and performance with flight-deck innovation and cutting-edge cabin creation to

offer customers an unprecedented aircraft experience. "The Gulfstream G700 takes the very best elements from our most innovative products and unites them with cutting-edge advances to create an all-new, advanced-technology aircraft that redefines safety, comfort and range at speed," said Mark Burns, Gulfstream's president "This announcement is the biggest news in business aviation history and is the result of the investments General Dynamics made to develop Gulfstream technology for Gulfstream products. Thanks to our nearly 18,000 employees around the world, the G700 is continuing a long Gulfstream tradition: raising the bar for ourselves and the industry. Qatar Executive demonstrated their confidence in Gulfstream when they committed as international launch customer for the G500, which is in service with them now alongside the G650ER. "We are grateful they have chosen to continue growing their Gulfstream fleet with our new flagship G700 and look forward to their customers traveling in the utmost comfort on the largest business jet in the industry." Qatar Executive has agreed to purchase ten G700s in addition to previously placed orders for the all-new Gulfstream G500TM and high-performing G650ERTM aircraft. "We are excited to be the launch customer of the G700, the largest business jet in the industry, and are looking forward to the aircraft joining our fleet," said Akbar Al Baker, Group CEO of Qatar Airways. "Qatar Executive's customers have extremely high standards, and this aircraft will help us meet their requirements by delivering unrivaled performance that complements our excellence in customer service."

Three new business jets are certified and ready for service with Safran Nacelles' thrust reversers

A trio of new business jets equipped with thrust reversers from Safran Nacelles are entering service following their certification by airworthiness authorities – reinforcing the company's role as a preferred nacelle system component supplier in this high-end aircraft sector. The three business jets are Bombardier's Global 5500 and Global 6500, powered by Rolls-Royce Pearl 15 engines; and the Cessna Citation Longitude from Textron Aviation, which is outfitted with Honeywell HTF7000 powerplants. All of them use variants of Safran Nacelles' in-production thrust reversers, benefitting from the maturity and service experience gained during decades of operation.



Thrust reversers for Rolls-Royce Pearl 15 jet engines are assembled at Safran Nacelles' Casablanca, Morocco facility
Photo: Julien Lutt

MRO & PRODUCTION NEWS

Joramco signs new maintenance contracts with MNG Airlines and Ryanair

Joramco, the Amman-based MRO and the engineering arm of Dubai Aerospace Enterprise (DAE), has signed a new base maintenance agreement with MNG Airlines, a Turkish cargo airline headquartered in Istanbul, to perform three C checks on two A300 and one A330 aircraft of the carrier's fleet. These checks are planned to commence between December 2019 and February 2020. Furthermore, Irish budget airline Ryanair has selected Joramco as its base maintenance provider. Joramco will perform heavy checks on Ryanair's Boeing 737 NG fleet. Ryanair has booked two parallel lines at Joramco's facility for the upcoming winter season, commencing November this year until the end of March 2020.

Aery Aviation to install FANS 1/A and ADS-B for fleet of Boeing 777s

Aery Aviation is scheduled to complete major upgrades to a fleet of Boeing 777-200ER aircraft for the installation of FANS1/A and ADS-B Out for each of the aircraft. The multiple B-777 avionics fleet modifications including FANS 1/A and ADS-B Out are expected to begin during Q4 2019 and finish up in Q1 of 2020, with thirty days estimated for the total elapsed installation time per aircraft. Aery intends to utilize an existing FAA Supplemental Type Certificate (STC), adding the Boeing 777 as a new model to the AML STC. Work will be completed by Aery's experienced team of avionics technicians and engineers at the customer's location during heavy maintenance checks. The work will be performed for an undisclosed International Operating airline. The non-integrated FANS 1/A and ADS-B Out method is a cost-effective solution meeting all regulatory requirements for other global B-777 operators. "Aery intends to market this capability and product to the marketplace upon completion of its initial order, installation, and certification," says Ken Walton, Aery's Director of Commercial Business Development.

StandardAero to open first European-based business aviation parts warehouse

StandardAero will open the company's first European-based business aviation parts warehouse to support operators and strengthen the company's parts support in the EMEA region. The warehouse operations will be located in Amsterdam with a goal for full functionality by January of 2020. The new facility will stock current parts that support Honeywell TFE731, HTF7000, CFE738 engines and Honeywell APU parts. Ad-

Skyworld Aviation arranges sale of ATR 72-500, and onward lease to FlyCAA



FlyCAA

Photo: SkyWorld

Skyworld Aviation has sold an ATR 72-500 to a U.S.-based regional aircraft leasing firm. Serial number 685, re-registered as 9S-AAD, will operate with FlyCAA Congo under a lease arrangement, also facilitated by Skyworld. The aircraft was previously operated by Vietnam

Airlines and arrived in Kinshasa on October 20, 2019. FlyCAA now operates two ATR 72-500s and one A321. The airline was established as CAA – Compagnie Africaine d'Aviation in 1992. The operator specializes in scheduled passenger operations based at Kinshasa, serving domestic destinations in the Democratic Republic of Congo.

Qantas raises benchmark for ultra-long-haul travel with non-stop flight from New York to Sydney



The first non-stop flight on a Boeing 787-9 Dreamliner landed after 19 hours in Sydney, Australia

Photo: Qantas

As part of a research project on the effects of ultra-long-haul travel on passenger and crew, Qantas has set a new milestone in commercial aviation with a successful non-stop flight between New York and Sydney. The flight lasted 19 hours and 16 minutes, covering 16,200 kilometers (10,066 miles) with 50 passengers and crew on board a Boeing 787-9 Dreamliner which arrived in Sydney Sunday morning October 20, (local time). "This is a really historic moment for Qantas, a really historic moment for Australian aviation and a really historic moment for world aviation," Qantas Chief Executive Officer Alan Joyce, who took the flight, said after landing. "The flight was very successful from two components – the first one was research," Qantas Captain Sean Golding said, "and also the feat of distance... we landed here in Sydney with a comfortable 70 minutes of fuel." In order to achieve such a feat, in addition to only carrying 50 people, the Dreamliner had no cargo, restricted baggage for passengers, and a maximum fuel load.

In a statement, Qantas confirmed that the aim of the research was to increase health and wellness, minimize jet lag and identify optimum crew rest and work periods. The team of researchers on board monitored, among other things, lighting, activity, sleep and consumption patterns of passengers, and crew melatonin levels. They also tracked the brain wave patterns of pilots, equipped for the flight with brain-monitoring devices.

MRO & PRODUCTION NEWS

ditional future expansions will include parts to support Lear, Challenger, Global, Gulfstream, Hawker, Falcon and Citation airframes. On behalf of StandardAero, the company will work in partnership with ASA-100-accredited MNX Global Logistics who will act as a forward stockist. Locating the inventory in Amsterdam allows for easy shipments across Europe and beyond.

Airinmar secures Value Engineering contract with JetBlue

AAR subsidiary Airinmar, the global independent provider of component repair cycle management and aircraft warranty solutions, has signed a three-year agreement with JetBlue to provide component Value Engineering cost oversight services for the airline's Airbus and Embraer fleets. The agreement covers the provision of Airinmar's unique Value Engineering knowledge and expertise, along with in-house support systems across a wide range of JetBlue's aircraft components. Under the scope of the services, Airinmar will assess repair costs to assure compliance with JetBlue's contracted pricing terms, under either component flight-hour or fixed-pricing terms, as well as the cost evaluation of time and material quoted repairs.

Liebherr-Aerospace signs new General Terms of Agreement with SR Technics



SR Technics and Liebherr Aerospace renew their partnership

Photo: Liebherr Aerospace

Liebherr-Aerospace and SR Technics have renewed their partnership with a five-year global service contract. The partners work hand in hand to support a fleet of more than 500 aircraft operated by airlines around the world, including Airbus A320 Family and A330/A340 Family aircraft as well as Embraer E-Jets. In the five-year global service agreement, Liebherr-Aerospace and SR Technics will provide services on air management systems and flight control systems to a global fleet of more than 500 aircraft; Liebherr from its facilities in Toulouse (France), Lindenberg (Germany) and its repair station in Singapore.

GKN Aerospace breaks new ground in large composite wing structure technology



RTM midsize demonstrator tool

Photo: GKN Aerospace

GKN Aerospace has reached a major milestone in the 'Wing of Tomorrow' program after designing, manufacturing, and delivering a mid-scale demonstrator tool to the GKN Aerospace Filton facility. This tool provides a fully functioning automated low-pressure RTM system for the Airbus-led program's composite wing spar. The spar is considered one of the most challenging aerospace components to design and manufacture, and this will be one of the first times that RTM technology has been used on this scale. GKN Aerospace engineers have used proven tool-making knowledge from the automotive industry in developing the demonstrator. The four-meter development testbed will deliver a rate 60 automated manufacturing

solutions and significantly improve the productivity of the composite manufacturing process, by removing one third of the production steps involved. Technology will be moving from traditional, pre-impregnated resin material to dry composite fibers that are injected with resin as part of the initial manufacturing process for the wing spar. This will result in significant weight savings. GKN Aerospace is using its world-leading capability in design and manufacture of composite Wing Spars and assembly of Fixed Trailing Edges – as proven on the A330, A400M and A350 – to mature the key technologies. The development work will stretch into 2021.

FINANCIAL NEWS

Boeing net earnings down 53% in third-quarter 2019

Boeing has reported third-quarter revenue of US\$20.0 billion, GAAP earnings per share of US\$2.05 and core earnings per share (non-GAAP) of US\$1.45, reflecting lower 737 deliveries partially offset by higher defense and services volume. Boeing recorded operating cash flow of (US\$2.4) billion and paid US\$1.2 billion of dividends. Total company backlog at quarter-end was US\$470 billion and included net orders of US\$16 billion. Commercial Airplanes third-quarter revenue was US\$8.2 billion reflecting lower 737 deliveries. Third-quarter operating margin decreased to (0.5) percent reflecting lower 737 deliveries partially offset by a higher margin on the 787 program. During the quarter, estimated costs to produce 737 aircraft included in the accounting quantity increased by US\$0.9 billion primarily to reflect current assumptions regarding timing of return to service and the timing of planned production rate increases. There was no significant change to estimated potential concessions and other considerations to customers related to the 737 MAX grounding. Commercial Airplanes delivered 62 airplanes during the quarter. Given the current global trade environment, the 787 production rate will be reduced to 12 airplanes per month for approximately two years beginning in late 2020. The 777X program is progressing through pre-flight testing and remains on track for first flight in early 2020. The company is now targeting early 2021 for first delivery of the 777X. Commercial Airplanes booked net orders worth US\$5 billion during the quarter, including orders for twenty 787 airplanes for Korean Air, eight 787 airplanes for Air New Zealand, and six 777 freighters for China Airlines. Commercial Airplanes backlog included nearly 5,500 airplanes valued at US\$387 billion.

Qantas posts first-quarter full-year 2020 revenue of AU\$4.56 billion

The Qantas Group continued to deliver revenue growth in the first quarter of FY20, up 1.8% to AU\$4.56 billion compared with AU\$4.49 billion in the prior corresponding period. Group Unit Revenue increased 2.1% versus the prior corresponding period. Total Group capacity was down 0.2%, driven by a 0.6% decrease for Group International, while Group Domestic increased by 0.5%, due largely to growth in the resources market. Group International Unit Revenue increased by 4.4%. This was led by a reduction in competitor capacity as well as benefits of network and fleet changes in Qantas International, which had its own capacity decrease of 2.5% and a Unit Revenue increase of over 6%. Protests in Hong Kong will negatively impact the Group's first-half

Tigerair expands PBH-contract with AJW Group



Tigerair

Photo: AJW

AJW Group, the independent specialist in the global management of aircraft spares, has strengthened its long-term partnership with Tigerair in Australia with an extension to its Power-by-the-Hour (PBH) contract. AJW Group has been providing an integrated component pooling, repair and logistics support program to Tigerair since 2014. During this time, it has delivered improved operational efficiency and cost savings, which continue to be key focus areas for the airline. The PBH agreement covers Tigerair's fleet of A320 aircraft. Under the support program, AJW will satisfy the airlines material requirements across a variety of component groups including airframe and engine LRU's, major assemblies, wheels and brakes, auxiliary power units (APU), thrust reversers and consumables. Tigerair is an Australian low-cost airline headquartered in Melbourne with two additional established service bases at Sydney and Brisbane Airports and operates a fleet of Airbus A320 and Boeing 737 aircraft, across 21 domestic routes out of 12 destinations around Australia.

profit performance by AU\$25 million, with ongoing capacity reduction in place to minimize the second-half impact. (US\$1.00 = AU\$1.47 at time of publication.)

American Airlines Group reports solid third-quarter profit

American Airlines has posted pre-tax earnings excluding net special items for the third quarter of 2019 of US\$835 million, a 16% year-over-year increase from the third quarter of 2018. Excluding net special items, net income was US\$630 million. Strong passenger demand drove a 3% year-over-year increase in third-quarter 2019 total revenue to a record US\$11.9 billion. Driven by a three-percentage point increase in total passenger load factor, passenger revenue per available seat mile (PRASM) grew 3% to 14.50 cents. Cargo revenue decreased 20% to US\$208 million due primarily to a 17% decrease in cargo ton miles. Other revenue was down 4% to US\$708 million. Third-quarter 2019 TRASM increased by 2% year over year to 15.71 cents on a 1% increase in total available seat miles, marking the 12th consecutive quarter of growth. Total third-quarter 2019 operating expenses were US\$11.1 billion, up 2% year over year. Total operating cost per available seat mile (CASM) was 14.64 cents in the third quarter of 2019, up 1% from

the third quarter of 2018. Excluding fuel and net special items, third-quarter 2019 CASM was 11.07 cents, up 5% year over year due primarily to higher salaries and benefits, maintenance and regional expense, and lower-than-planned capacity. American has removed all 737 MAX flights from its schedule through Jan. 15, 2020. With the flight cancellations extending through the remainder of 2019, the company now expects the MAX cancellations will negatively impact its full-year 2019 pre-tax income by approximately US\$540 million.

Norwegian shares jump as plane deal and increased earnings reduce financial pressure

Stock in Norwegian Air (Norwegian) soared by as much as 23% as the Scandinavian airline not only announced a Q3 net income of NOK1.67 billion, up from a previously forecast NOK 1.47 billion, but also announced a leasing deal to offload 27 new Airbus jets it is committed to purchasing. Norwegian has raised its 2019 savings goal and outlined plans to cut capacity while increasing operating profit by NOK4 billion over two years. The carrier has also finalized a joint venture deal with China Construction Bank where the latter will take a 70% stake in a new leasing company which will purchase the 27 Airbus A320neo jets

OTHER NEWS

CAE has signed business aviation training contracts with five business aircraft operators worldwide valued at approximately CA\$50 million (US\$38 million), including **JetSuite** and its sister company **JSX**, **Silver Air**, **Solairus Aviation**, **TAG Aviation Holdings** and **Vulcan Flight Management**.

JetSuite, an innovator in private jet aviation and its sister company **JSX**, have renewed their exclusive pilot training agreements with CAE for an additional six years for the Embraer Phenom 300 & 100 and Embraer Legacy Jet E145 platforms. Pilots will continue initial type-rating and recurrent training at CAE Dallas.

Silver Air, a private aircraft management company and direct charter operator, has renewed its exclusive pilot training agreement with CAE for an additional four years. Training will span across CAE's global training network of large, super mid-size, mid-size and small, including Boeing, Bombardier, Cessna, Dassault, Gulfstream, Embraer and Hawker platforms. Pilots will continue training at CAE New Jersey Morristown and CAE Dallas.

Solairus, a private aviation services company whose core business is to assist aircraft owners with the safe, reliable, and efficient management and operation of their aircraft, has renewed its pilot training agreement with CAE for an additional four years on multiple aircraft platforms, including Bombardier, Dassault and Gulfstream. Solairus pilots will continue training at CAE New Jersey Morristown and CAE Dallas.

TAG Aviation Holdings, one of Europe's premier management companies, has again selected CAE as its training partner for an additional three years. TAG Aviation Holdings' pilot training will span across CAE's global training network of small, mid-size, super-mid-size, large-cabin, and transport category.

Vulcan Flight Management, a Part 91 corporate flight department, has extended its partnership with CAE by entering in a new four-year pilot-training contract for Gulfstream G650 and Bombardier Global Express training programs. Its pilots will continue initial type-rating and recurrent training at CAE Dallas and CAE Dubai.

MTU Aero Engines AG and the government of the **Republic of Serbia** have inked a Memorandum of Cooperation (MoC), establishing their close cooperation in the field of training of skilled labor. The aim is to effectively address the specific needs of the aviation industry in the curricula of vocational and trade schools. The move clears the way for an adoption of a training scheme based on the proven dual system of classroom and work-place learning for teaching

ACJ and Sabena technics to co-operate in self-protection systems



Daniel Soltani (r) and Benoit Defforge

Photo: ACJ

Airbus Corporate Jets (ACJ) and Sabena technics are to co-operate in proposing self-protection systems (SPSs) for Airbus corporate jets. Each SPS will combine an existing, state-of-the-art, directional infra-red countermeasure (DIRCM) system with installation on an Airbus corporate jet. SPSs will initially be offered for the ACJ320 Family. An SPS offers protection against missiles fired from man-portable air defense systems (MANPADS), which are the most widespread missile-threat today. Self-defense systems are already in service on some Airbus corporate jets. The co-operation agreement was signed at the NBAA show, by Sabena technics Senior Vice President Sales and Business Development Daniel Soltani and ACJ President Benoit Defforge.

Embraer and Azul sign Flight Hour Repair Management Program contract



Azul signs Repair Management Program contract with Embraer

Photo: Embraer

Embraer has signed a multiyear Flight Hour Repair Management Program contract with Azul Linhas Aéreas Brasileiras (Azul) to provide materials support for the carrier's fleet of first-generation E190 and E195 E-Jets commercial aircraft. Through Embraer's TechCare portfolio of solutions, the multi-year agreement covers more than 300 repairable part numbers and includes both materials and engineering services supported from Embraer's spare parts facility in Ft. Lauderdale, Florida, USA. With this agreement, Azul now secures the OEM state-of-the-art support for its entire Embraer fleet, including the airline's new E2 fleet, the new generation of the E-Jets family, which is already covered by Embraer Pool Program. Azul has relied on Embraer for its materials requirements since 2008, when it began operating first-generation E-Jets, supported by Embraer materials solutions.

OTHER NEWS

people the ropes of the aviation industry. The decision to step up cooperation comes against the backdrop of MTU's plan to open a dedicated engine parts repair facility in Serbia. MTU's new shop will be located in Nova Pazova, near Belgrade and is scheduled to be up and running in the course of 2022. In support of the project, a Serbian subsidiary, dubbed MTU Maintenance Serbia d.o.o., has been set up, and first employees have already been hired. Its focus over the next few months will be on developing a workforce to meet the company's needs. While construction of the new facility is under way, MTU will be training people for the skilled positions to be filled. This training will take place at local vocational and trade schools in Serbia and on site at MTU's facilities in Germany along the lines of the MoC now signed.

Aireon and **Corporación Centroamericana de Servicios de Navegación Aérea** (COCESNA) have signed an agreement to deploy space-based Automatic Dependent Surveillance-Broadcast (ADS-B) in Belize, Costa Rica, El Salvador, Guatemala, Honduras and Nicaragua. The agreement also establishes a strategic partnership to enhance the operations and collaboration of air traffic surveillance in the Central American region. Spanning the entire Central American flight information region (FIR), COCESNA's region encompasses more than 2.6 million square kilometers of terrestrial airspace and extensive oceanic areas in the Caribbean Sea and Pacific Ocean. Its central location in the Americas positions COCESNA as the major air traffic control provider at the crossroads of the Caribbean, North, South and Central America. In addition to deploying space-based ADS-B throughout the region and within its member States, this agreement establishes a partnership by which COCESNA can utilize the Aireon data to support its leading role in advancing operations across the region. The strategic partnership brings a greater level of collaboration to the existing agreement and also enables the use of space-based ADS-B data for airspace and traffic optimization projects such as the CANSO ATFM Data Exchange Network for the Americas (CADENA) initiative.

INFORMATION TECHNOLOGY

iBASEt, a provider of manufacturing, MRO, and quality software solutions for complex, highly regulated industries, has launched "iBASEt MRO", its Maintenance, Repair and Overhaul software solution for MRO execution at MRO Europe. "iBASEt MRO" is designed to enable new levels of visibility, velocity, and reliability for maintenance and repair of highly engineered



First drone deliveries by Wing for Christiansburg, Virginia, residents

Photo: Wing

With an expanded Air Carrier Certificate from the **Federal Aviation Administration** (FAA), **Wing** has become the first company to operate a commercial air delivery service via drone directly to homes in the United States. Wing started delivering packages, over-the-counter medication, snacks and gifts to residents of Christiansburg, Virginia, on October 18. Wing's FAA permissions are the first to allow multiple pilots to oversee multiple unmanned aircraft making commercial deliveries simultaneously to the general public, paving the way for the most advanced drone delivery service in the nation. Wing's collaborators on this service — FedEx Express, Walgreens, and local Virginia retailer Sugar Magnolia — are the first businesses in the United States to offer this form of local air delivery to customers.



Photo: Prague Airport terminal 2

Václav Havel Airport Prague will introduce its winter flight schedule as of Sunday October 27, 2019. It will provide direct flights from 121 destinations in 46 countries, to six more destinations than over the same period last year. New destinations that have been added this winter include Lviv, Kharkiv, Chisinau, Florence, Beirut, Nur-Sultan and Keflavik. During the winter season, 60 airlines, of which 13 are low-cost carriers, will operate regular direct flights from Prague. This means that Prague Airport has continued to maintain a very good balance between traditional and low-cost airlines. Destinations that will be new in the upcoming winter flight schedule will include Lviv, Kharkiv, Chisinau, Casablanca, Perm, Florence, Nur-Sultan, Stockholm – Skavsta, Bournemouth, Billund, Beirut, Keflavik, Malta, Odessa and Venice – Treviso. Four airlines will operate winter service from Prague for the first time: SCAT Airlines, SkyUp Airlines, Air Malta and Arkia Airlines.

INFORMATION TECHNOLOGY

products that consist of multiple assemblies and have high value and long lifecycles. The solution serves complex manufacturing OEMs as well as Aerospace and Defense MRO providers who must support ongoing customer demands, rapid engineering changes, and strict compliance requirements. Built upon iBASEt's software technologies and leveraging 20 years of MRO Operations execution experience, the out-of-the-box solution is designed to provide fast onboarding and deployment of cost-effective MRO procedures aimed at simplifying the execution of routine and non-routine maintenance tasks. "iBASEt MRO" provides operators with a complete history and product genealogy of all critical materials and resources for MRO work plans, along with full traceability of important sustainment operations such as equipment data, serial numbers and inspection results, including those parts supplied by vendors. iBASEt's solution for MROs can integrate with ERP, PLM, and other software to form an eco-system of digital continuity across the enterprise. This differs from massive silos of data and disconnected systems that are hard to use, expensive to maintain and complex to deploy.

Jet Aviation and **GE Aviation** have signed a long-term agreement for a comprehensive safety and fleet modernization project including C-FOQA™. The program covers Jet Aviation's global fleet of some 300 aircraft including Airbus, Boeing BBJ, Bombardier, Dassault, Gulfstream and more. FOQA (Flight Operations Quality Assurance), also commonly referred to as FDM (Flight Data Monitoring), is the process of analyzing and reviewing routinely recorded flight data. Airlines and operators that adopt FOQA are better able to identify and eliminate potential safety hazards in flight operations. "Jet Aviation puts safety as a top priority for its business and its clients", said Andrew Coleman, chief commercial officer for GE Aviation's Digital Group. "Our teams are working together to implement a leading FOQA safety solution and support services across Jet Aviation's fleet to continue promoting safety across our industry."

Bombardier has signed a Preferred Service Provider (PSP) agreement with **GE Aviation**. As of October 23, GE will power Bombardier's cockpit and cabin connectivity solutions – including new, curated service bundles that will simplify the selection of cockpit and cabin services with tip-to-tail solutions for new and in-service aircraft. This agreement is a first step toward the launch of Bombardier's comprehensive Smart Link Plus connected aircraft program. Launching in the second half of 2020, Smart Link Plus will help Bombardier customers drive operations and maintenance decisions by leveraging fleet-

Recommended Events



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



Aircraft Economic Life Summit
November 18, 2019 – Gibson Hotel, Dublin, Ireland

[Click here for more aviation events](#)

wide data. GE Aviation is also working closely with Bombardier on the development of the Smart Link Plus box – a Health Monitoring Unit (HMU) "smart" box capable of generating key data for customers, enabling them to increase operational efficiency, and minimize return-to-service times through data-driven decisions. The smart box combines GE's joint venture, Avionica's, lightweight, highly functional and open architecture hardware with GE's health and data management software.

INDUSTRY PEOPLE



Stan Deal



Ted Colbert

- Boeing has named **Stan Deal** to succeed **Kevin McAllister** as president and CEO of Boeing Commercial Airplanes and **Ted Colbert** to succeed Deal as president and CEO of Boeing Global Services, effective immediately. **Vishwa Uddanwadiker** is appointed to Colbert's former role as interim chief information officer and senior vice president of Information Technology & Data Analytics.

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THE AIRCRAFT AND ENGINE MARKETPLACE

Commercial Jet Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
A319-100	DVB Bank	CFM56-5B63	3586	2008	Q3/2020	Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
A319-111	DVB Bank	CFM56-5B5/P	2870	2006	Q4/2019	Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
A320-200	ORIX Aviation	V2527-A5	1509	2001	Q4/2020	Sale / Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A320-200	ORIX Aviation	CFM56-5B4/P	2584	2005	Q1/2021	Sale / Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A320-200	TrueAero Asset Management	V2527E-A5	5794		Nov 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A320-200	TrueAero Asset Management	V2527E-A5	5531		Oct 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A320-200	TrueAero Asset Management	V2527E-A5	5296		Aug 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A320-200	TrueAero Asset Management	V2527E-A5	5089		Jun 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A320-200	TrueAero Asset Management	V2527E-A5	5050		Apr 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A320-232	DVB Bank	V2527-A5	2156	2005	Q1/2020	Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
A330-200	DVB Bank	CF6-80E	814	2007	Q2/2020	Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
A330-200	GA Telesis	CF6-80E1A4	507	2002	Now	Sale	Kevin Ford	aircraft@gatelesis.com	+1-954-676-3111
A330-200	GA Telesis	CF6-80E1A4	510	2002	Now	Sale	Mauro Francazi	aircraft@gatelesis.com	+1-954-676-3111
A330-200	TrueAero Asset Management	CF6-80E1A4/B	882		Apr 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A330-200	TrueAero Asset Management	CF6-80E1A4/B	901		Apr 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A330-200	TrueAero Asset Management	CF6-80E1A4/B	932		May 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A330-223	Aircraft Engine Lease Finance	PW4168A	970	2008	Now	Lease	Stephen Haire	shaire@aelfinc.com	+1 3127721613
A330-300	BBAM	Trent 772B-60	1544	2014	Jul 2020	Sale / Lease	Steve Zissis	info@bbam.com	+1 415 486 6100
A330-300	BBAM	Trent 772B-60	1562	2014	Sep 2020	Sale / Lease	Steve Zissis	info@bbam.com	+1 415 486 6100
A330-300	DVB Bank	Trent 772B-60	1485	2014	Q1/2020	Sale / Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
A330-300	DVB Bank	Trent 772B-60	1146	2010	soon	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
B737-800	DVB Bank	CFM56-7B27	28178	1999	Q4/2019	Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
B737-800	ORIX Aviation	CFM56-7B26E	38034	2012	Q4/2020	Sale / Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
B737-800	GA Telesis	CFM56-7B	33813	2004	Now	Lease	Priscilla Ang	aircraft@gatelesis.com	+1-954-676-3111
B737-800	GA Telesis	CFM56-7B	33814	2004	Now	Lease	Mauro Francazi	aircraft@gatelesis.com	+1-954-676-3111
B737-800	Willis Lease				soon	Sale / Lease	Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775
B757-223 (7x)	Jetran	RB211-535E4B	various	91/92	Now	Lease	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
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	Willis Lease	CFM56-7			soon	Sale / Lease	Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775

Regional Jet / Turboprop Aircraft

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

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THE AIRCRAFT AND ENGINE MARKETPLACE

Regional Jet / Turboprop Aircraft (cont.)

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

Commercial Engines

Multiple Types	Sale / Lease	Company	Contact	Email	Phone
Multiple Engines GE / CFM / RB211	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
AE3007 Engines	Sale / Lease	Company	Contact	Email	Phone
(3) AE3007A1P	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 786-623-3936
(1) AE3007A1	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Ben Ferguson	Benjamin.ferguson@rolls-royce.com	+44 7807 969 372
CF34 Engines	Sale / Lease	Company	Contact	Email	Phone
CF34-8E5	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
CF34-10E	Now - Lease				
CF34-8C	Now - Lease				
CF34-3B1	Now - Sale				
CF34-3A	Now - Sale / Lease				
(2) CF34-8C5B1	Now - Sale / Lease	Regional One	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
(1) CF34-3B1	Now - Sale / Lease				
(2) CF34-10E	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) CF34-8E5A1	Now - Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204x202
(1) CFM34-8C5A1	Oct 2019 - Lease				
(1) CF34-10E6	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CF34-10E7	Now - Lease				
CF34-8E(s)	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1 (513) 782-4272
CF6 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CF6-80C2B6F	Now - Sale / Lease	GA Telesis	Eddo Wiejer	ewiejer@gatelesis.com	+1-954-676-3111
(1) CF6-80C2B1F	Now - Sale / Lease				
(1) CF6-80C2B7F	Now - Sale / Lease				
(1) CF6-80C2B1F	Now - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
CFM Engines	Sale / Lease	Company	Contact	Email	Phone
(2) CFM56-5B	Q3/2019 - Sale / Lease	Contrail Aviation	Kevin Milligan	kevin@contrail.com	+1 949-933-0797
(1) CFM56-7B24	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950



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THE AIRCRAFT AND ENGINE MARKETPLACE

Commercial Engines (cont.)

(2) CFM56-5A	Now - Sale	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
(1) CFM56-5B3/3	Now - Lease	Rolls-Royce & Partners Finance	Charlie Ferguson	charlie.ferguson@rolls-royce.com	+44-(0)7772224895
(1) CFM56-7B22	Now - Lease	CFM Materials	Jimmy Hill	jimmy.hill@cfmmaterials.com	+1 -214-988-6670
(1) CFM56-7B26/3	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CFM56-7B26/E	Now - Lease				
(1) CFM56-5B3/3	Now - Lease				
(1) CFM56-5B3/P	Now - Lease				
(1) CFM56-7B27	Now - Sale / Lease	GA Telesis	Eddo Wiejer	ewiejer@gatelesis.com	+1-954-676-3111
(2) CFM56-5B4/P	Now - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
(2) CFM56-7B26/27	Nov 2019 - Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(2) CFM56-5B6/P	Now - Lease				
(1) CFM56-5B4/P	Oct 2019 - Lease				
JT8D and JT9D Engines	Sale / Lease	Company	Contact	Email	Phone
(1) JT8D-219	Now - Sale	AZURE RESOURCES INC.	Jeff Young	jeff@azureres.com	1-954-249-7935
GE90 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) GE90-115B	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(2) GE90-115	Now - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
GENx Engines	Sale / Lease	Company	Contact	Email	Phone
(1) GENx1B74/75 Propulsor	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
LEAP Engines	Sale / Lease	Company	Contact	Email	Phone
(2) LEAP-1B28	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) LEAP-1A33	Now - Lease				
(1) LEAP1A-32	Now - Lease	Rolls-Royce & Partners Finance	Charlie Ferguson	charlie.ferguson@rolls-royce.com	+44-(0)7772224895
PW Small Engines	Sale / Lease	Company	Contact	Email	Phone
(3) PW121	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) PW123B/E	Now - Sale / Lease				
(3) PW127E/F/M	Now - Sale / Lease				
(1) PW150A	Now - Sale / Lease				
(3) PW123	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	leasing@willislease.com	+1 (561) 349-8950
(2) PW127F	Now - Sale/Lease/Exch.				
(1) PW150A	Now - Sale/Lease/Exch.				
(3) 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	jcmarin@logix.aero	+33.6.4782.4262
(2) PW127E/F			Remi Krysz	rkrysz@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

Commercial Engines (cont.)

Trent Engines	Sale / Lease	Company	Contact	Email	Phone
(1) Trent 772B	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Ben Ferguson	Benjamin.ferguson@rolls-royce.com	+44 7807 969 372
V2500 Engines	Sale / Lease	Company	Contact	Email	Phone
(2) V2533-A5	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Ben Ferguson	Benjamin.ferguson@rolls-royce.com	+44 7807 969 372
(1) V2533-A5	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(2) V2527-A5	Dec 2019 - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) V2527-A5	Now - Sale / Lease	GA Telesis	Eddo Wiejer	ewiejer@gatelesis.com	+1-954-676-3111
(2) V2527-A5	Now - Sale / Lease				
(2) V2500-A5	Now - Sale / Lease	Contrail Aviation	Kevin Milligan	kevin@contrail.com	+1 949-933-0797
(1) V2533-A5	Now - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
(1) V2527-A5	Now - Lease				

Aircraft and Engine Parts, Components and Misc. Equipment

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