

# Weekly Aviation Headline News

## WORLD NEWS

### dnata adds Boston and Los Angeles to catering network

dnata, one of the world's largest air services providers, continues to expand its catering operations in the United States. The company has opened two new facilities at Boston Logan International Airport (BOS) and Los Angeles International Airport (LAX) and now offers catering services from six airports in the country. dnata's catering operations in the two cities are expected to create a total of 250 new, direct jobs with the company over the next 18 months.

### Zambia Airports embarks on land utilisation project

Zambia Airports Corporation Limited (ZACL) is looking to strengthen its non-aeronautical revenue generating projects at Kenneth Kaunda International Airport in Lusaka. This is part of the Corporations Strategic Plan for the year 2017 – 2021 which will see it turn the area around the airport into an Aerotropolis or airport city. A land utilisation plan is currently being developed through the services of a Dutch based consultancy firm, Netherlands Airport Consultants (NACO) who submitted a finalised plan for 550 acres of land at the airport in Lusaka.

### Hong Kong Airlines opens new training academy

Hong Kong Airlines' HKA Training Academy (HKATA) has officially opened. The airline's first training facility in the airport island of Chek Lap Kok not only marks a significant milestone in the airline's history, it also reaffirms Hong Kong Airlines' investment and confidence in the city it has called home for 13 years.



Delta plans to boost transatlantic services.  
Photo: Airbus

## Delta's European expansion With new transatlantic operations

U.S. carrier Delta announced it will have even more flight options between the U.S. and Europe beginning in 2020, with new summer service between Boston and Rome and expanded flying from three of the airline's hubs to 10 popular transatlantic destinations. Delta says it offers more flights connecting the U.S. and Europe than any other carrier and plans to add about 780,000 additional seats in 2020.

"Consumers are looking for more opportunities to visit Europe, so we've added more destinations and more flight times," said Joe Esposi-

to, Senior Vice President – Network Planning. "In addition to offering the most comprehensive schedule of any U.S. carrier across the Atlantic, we've invested significantly in

**"These new services strengthen our position across the Atlantic with more than 5% growth in 2020,"**

*said Roberto Ioriatti, Vice President – Transatlantic*

our aircraft, service and products for customers travelling between the U.S. and Europe."

Last month, Delta announced a 15% increase in seats between the U.S. and the U.K., including the ad-

dition of daytime service connecting JFK and London-Heathrow as well as new service between Boston and both Manchester and London-Gatwick. Beginning this winter, all of Delta's flights connecting Heathrow with Boston and New York will be operated using the carrier's newly retrofitted Boeing 767-400 aircraft, featuring all four branded seat products including a more private Delta One experience.

"These new services strengthen our position across the Atlantic with more than five percent growth

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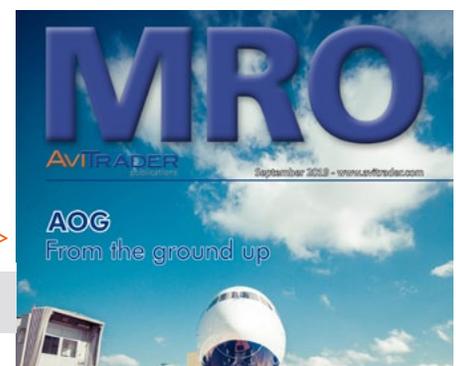
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in 2020,” said Roberto Ioriatti, Vice President – Transatlantic. “The Europe, Middle East and Africa region is our largest international entity and these new services, together with our partners, strengthen that further.”

In 2020, Delta will launch four new transatlantic flights from Boston,

including new seasonal service to Rome, the carrier’s second daily flight to Paris and new service to London-Gatwick and Manchester. The carrier will also extend seasonal service between Boston and Edinburgh and Lisbon, two popular destinations added in 2019.

**AIRCRAFT & ENGINE NEWS**

**AeroCentury reports lease terminations with Adria Airways**

After many months of working closely with Adria Airways (Adria) in Slovenia to improve its financial condition, on September 24, AeroCentury gave notice to Adria of the termination of its leases for two CRJ 900 aircraft with immediate effect, due to the accumulation of substantial payment defaults by the airline under its leases with the company. At the same time, AeroCentury issued a default notice for its last remaining CRJ 900 aircraft on lease to Adria. If Adria does not cure its payment defaults to the company by September 27, then this last remaining lease contract will be immediately terminated. The AeroCentury intends to regain possession of these three aircraft as quickly as possible and prepare the aircraft for lease or sale. On September 20, Adria returned a fourth CRJ aircraft that was leased by the company to Adria and the lease was terminated.

**Etihad paying the price for rapid expansion – mothballing five brand-new A350-1000s**

Etihad Airways has announced that it is delaying the entry into service of five Airbus A350-1000 jets as part of a cost-cutting measure following three consecutive years of losses, including a massive US\$1.28 billion loss last year. The move comes as a result of a five-year expansion strategy begun in 2016 in an attempt to compete with rival Gulf carriers such as Emirates. Not only has the plan proved unsuccessful, but it has also put the Gulf carrier under undue financial pressure. “Etihad Airways will re-time the entry into service of five new Airbus A350-1000 aircraft as part of its ongoing business transformation plan,” said an airline spokesman. Of the aircraft ordered in 2016 as part of the original expansion strategy, Etihad has subsequently cancelled 40 A350-900s and two A350-1000. The five it has committed to taking delivery of are from an existing order for 20 of the model. Speculation was rife ten days ago when a second A350-1000 ended up being mothballed in Toulouse instead of flying to Abu Dhabi after it left the paint shop in Hamburg, Germany.

**Cessna Citation Longitude receives FAA Type Certification**



Cessna Citation Longitude

Photo: Textron Aviation

Textron Aviation has achieved Type Certification by the Federal Aviation Administration (FAA) for its innovative super-midsize jet, the Cessna Citation Longitude, paving the way for customer deliveries. FAA Type Certification follows the most robust flight, structural and component qualification testing completed on a Citation to date. The experimental and demo fleet completed close to 6,000 hours of flight time. In addition to 11,000 test points during the certification process, the Longitude also completed a 31,000-nautical mile world tour, demonstrating the aircraft’s outstanding long-range performance capability and reliability in a variety of environments. The Longitude, produced at Textron Aviation’s manufacturing facility in Wichita, benefits from state-of-the-art assembly and fabrication tools and techniques.

**Air Lease Corporation delivers one new Airbus A321-200neo LR aircraft to Air Astana**



Air Astana takes delivery of its first Airbus A321

Photo: Airbus

Air Lease Corporation (ALC) has delivered one new Airbus A321-200neo LR aircraft on long-term lease to Air Astana. Featuring Pratt & Whitney PW1133G engines, this aircraft is the first of seven A321-200neo aircraft scheduled to deliver to the airline from ALC’s order book with Airbus. Air Astana is the principal airline and flag carrier of the Republic of Kazakhstan, based in Almaty, Kazakhstan. The airline operates scheduled domestic and international services from its main hub, Almaty International Airport, and from its secondary hubs, Nursultan Nazarbayev International Airport and Atyrau Airport.

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**Rolls-Royce Pearl 15 receives Transport Canada Certification**



The Pearl engine was custom designed to power the Global 5500 and Global 6500 aircraft. Photo: Rolls-Royce

The Pearl 15, the latest addition to Rolls-Royce’s business aviation engine portfolio, has received official certification by Transport Canada (TCA). The engine, which was developed at the Rolls-Royce Centre of Excellence for Business Aviation engines in Dahlewitz, Germany, is the exclusive engine option for the newest members of Bombardier’s Global business jet family, namely the Global 5500 aircraft and Global 6500 aircraft. The Pearl engine was custom designed to power the Global 5500 and Global 6500 aircraft, which have the longest range in their category. These jets also have the largest cabin in their category and feature Bombardier’s signature smooth ride technology. Since receiving EASA certification in 2018, the Pearl 15 has undergone a comprehensive test program, and aircraft mounted with the Pearl 15 are undergoing final flight validation, on track for a planned entry into service in 2019.

**SpiceXpress expands Air Cargo Capacity with 737-800 Boeing Converted Freighter**

SpiceXpress, SpiceJet’s cargo division, has taken delivery of its first 737-800 Boeing Converted Freighter (BCF) as the India-based carrier expands its air cargo operation to better serve one of the world’s most populated regions, and offer new route options. “We are expanding the markets we currently serve, particularly in the Middle East, Hong Kong and Bangladesh and the 737-800BCF’s reliability and versatility is helping enable our strategic direction,” said Ajay Singh, Chairman and Managing Director, SpiceJet. The standard-body freighter, which is the first 737-800BCF to be operated in South Asia, is on lease from NGF Alpha Limited, a division of Spectre Cargo Solutions.



SpiceXpress takes delivery of its first 737-800 Boeing Converted Freighter

Photo: Boeing

**Airbus H145 lands on top of the Andes**



Airbus H145 helicopter lands on the Aconcagua in Argentina

Photo: Anthony Pecchi

Airbus Helicopters has reached new heights: the latest version of the H145 has set its skids down on Aconcagua, the highest mountain in the Southern Hemisphere, culminating at 6,962 meters (22,840 feet). This is the first time a twin-engine helicopter has landed at this altitude, confirming the performance and the extensive flight envelope of the new H145. The conditions for this mission were extreme, due to the atmospheric conditions in the area and the winter season. The aircraft took off from Mendoza, Argentina, flew 30 minutes to the foot of Aconcagua, where it then began its ascension. After 15 minutes of climbing, the helicopter landed at 1.45 pm on the summit, at a temperature of -22°C. “We had to stay focused on the mission due to severe winds with gusts up to 30 knots and the low air density. The handling qualities of the new H145 are excellent and combined with Helionix and its four-axis autopilot, we reached the summit safely,” said Alexander Neuhaus, experimental test pilot at Airbus Helicopters. “The aircraft performed outstandingly.

We flew over the summit of Aconcagua and still had power reserves that would have allowed us take two[additional] people on-board.” The flight test was supported by the Fuerza Aerea Argentina, who provided aerial support with their Lama helicopters; Patrulla de Rescate de Alta Montaña de Policia de Mendoza, who assisted with a contingency plan; Parque Provincial Aconcagua, facilitating operations and logistics, and Helicopters AR, a local operator with over 15 years of experience flying in the Aconcagua area with their Airbus H125 helicopter.

**FPG Amentum and LHI arrange acquisition of another Air Baltic A220-300**



Air Baltic A220-300

Photo: AirTeamImages

FPG Amentum, the Dublin-based aircraft leasing / management company and Munich-based asset and lease manager LHI Group have announced the acquisition of an Airbus A220-300. This is the second aircraft in a two-aircraft transaction, following the first delivery during the second quarter of 2019. Both aircraft were acquired new in a sale-and-leaseback transaction with Air Baltic and its advisor Skytech-AIC. They are owned by investment vehicles managed by LHI with servicing done by FPG Amentum.

**JetBlue inaugurates first Airbus A321neo aircraft**



JetBlue's newest aircraft, the Airbus A321neo, officially entered scheduled service on Sept. 24  
 Photo: JetBlue

JetBlue's newest aircraft, the Airbus A321neo, has officially entered scheduled service marking the start of a new and exciting future for the airline's modern fleet. Featuring increased fuel efficiency, an extended range and the very best in customer comfort, the aircraft will benefit the airline's customers, crewmembers and investors. The new aircraft officially entered scheduled service on September 24, as flight #1 from New York's John F. Kennedy International Airport (JFK) to Fort Lauderdale-Hollywood International Airport (FLL), which commemorated JetBlue's first revenue route nearly 20 years ago when the airline first took to the skies.

**Air New Zealand orders eight 787-10 Dreamliner jets**



Air New Zealand orders eight 787-10 Dreamliner jets

Photo: Boeing

Boeing and Air New Zealand have finalized an order for eight 787-10 Dreamliner airplanes valued at US\$2.7 billion at list prices. The carrier, recognized for its long-range flights and global network, will integrate the largest Dreamliner model into its fleet of 787-9 and 777 airplanes from 2022 to strategically grow its business. The airplane deal, announced in May as a commitment, includes options to increase the number of aircraft from eight up to 20, and substitution rights that allow a switch from the larger 787-10 to smaller 787-9s, or a combination of the two models for future fleet and network flexibility. Air New Zealand was the global launch customer for the 787-9 and today operates 13 of the Dreamliner variants. With another 787-9 on the way and the 787-10 airplanes in the future, the airline's Dreamliner fleet is on track to grow to 22. The new Dreamliner aircraft will replace Air New Zealand's fleet of eight 777-200ERs. The carrier's wide-body fleet also includes seven 777-300ERs.

**Robinson R66 Turbine surpasses one million flight hours**



Robinson R66 Turbine

Photo: Robinson Helicopter

Robinson Helicopter Company announced that the R66 Turbine fleet has surpassed 1,000,000 flight hours. The R66 with aRolls-Royce RR300 turbine engine achieved the million-hour mark without a single reported in-flight engine failure. This accomplishment demonstrates a level of reliability that exceeds EASA's stringent requirements for single-engine helicopters performing commercial operations. Certified in October 2010, the first production R66 was delivered the following month. Since then, over 960 R66s have been produced, providing dependable performance to operators all over the world. Not only has the R66 proven itself on a daily basis, but it has also risen to the unique challenges of flying to the North Pole and circumnavigating the globe multiple times.

**Delta TechOps and ORIX Aviation Systems sign major engine maintenance contract**



*Photo: Delta TechOps and ORIX sign five-year maintenance contract*

Delta TechOps, the maintenance, repair and overhaul (MRO) division of Delta Air Lines, has signed a five-year Maintenance Services Agreement with aircraft leasing ORIX Aviation Systems (ORIX Aviation). The agreement will cover the support of CFM56-5B and CFM56-7B aircraft engines. As both an operator of, and MRO for CFM56-5B and -7B engines, Delta TechOps is uniquely qualified to provide maintenance services to ORIX. Delta TechOps has been maintaining CFM56 engines for many years and will be able to pass along the same operational reliability and expertise to this globally established lessor.

**TAM presents weight-saving SAAB 340 Cargo Conversion Generation II**

Täby Air Maintenance, TAM, has unveiled the Saab 340 Cargo Conversion Generation II, a thorough upgrade of its well-known Cargo Conversion Programme. With about a dozen aircraft converted over the last few years, the Saab 340 Cargo Conversion Programme brings extended life and new commercial opportunities for this popular regional airliner. The new Cargo Conversion Programme has a focus on weight saving, allowing for increased payload and fuel. Thanks to the extensive use of carbon fiber paneling, the main cargo compartment has been redesigned, and the Generation II Cargo Conversion Programme comprises a number of refining upgrades, such as: enlarged



Täby Air Maintenance AB (TAM) hangar

*Photo: TAM*

cargo bays through reducing the number of nets installed in five instead of earlier eight positions, meaning easier loading and the possibility to load larger cargo units, as well as reduction of aircraft basic empty weight, allowing for more payload. New carbon fiber window blanks further reduce weight compared to previous aluminum window blanks and, overall, total savings on the aircraft's basic empty weight amounts up to 400 lbs. (180 kg). The above upgrades will be standard on coming cargo conversions with most of them available for already converted aircraft with a Service Bulletin. The upgrades are based on operational experience as well as customer requirements to further develop Tam's well-proven SAAB 340A & B cargo conversion STC.

**MRO & PRODUCTION NEWS**

**Skyways Technics A/S acquires CRJ-200 for teardown**

Skyways Technics A/S, the Danish regional aircraft MRO specialist for heavy maintenance and spares support services for ATR and CRJ aircraft, has finalized the acquisition of CRJ-200, MSN 7591, along with two additional CF34 engines. Teardown will be carried out at Skyways facilities in Sonderborg, Denmark, starting November 2019. The resulting spares and major components from this project will be positioned in Skyways Technics' recently established warehouse in Miami, Florida, in order to serve the Americas market.

**Asiana Airlines awards PW4000 maintenance contract to SR Technics**

MRO service provider SR Technics has been awarded an exclusive five-year engine maintenance contract by Asiana Airlines effective September 1, 2019. The new contract with Asiana Airlines, South Korea's second-largest carrier, brings SR Technics an important new customer in the region. The MRO's Engine Services business unit will perform more than 50 Pratt & Whitney PW4000 shop visits for their A330-300 fleet over the period. All work will be performed at the SR Technics engine shop in Zurich.

**PWI names KADEX Aero Supply as Canadian distributor**

PWI Inc. of Wichita, Kansas USA has released that KADEX Aero Supply, headquartered in Peterborough, Ontario, Canada has become the exclusive distributor of PWI products throughout all Canada. PWI and KADEX have worked together for years, with KADEX demonstrating a consist-

**China Cargo Airlines and LHT sign component support agreement for Boeing 747 freighters**

China Cargo Airlines has entrusted Lufthansa Technik with the component support for three Boeing 747-400 freighter aircraft. The five-year Total Component Support (TCS®) agreement is the first major collaboration between the two companies – and the first TCS® contract with a direct service provision to a Chinese customer. Lufthansa Technik's Total Component Support offers operators optimal component availability without the task of setting up and maintaining their own spare parts inventories. China Cargo Airlines will benefit from a unique pooling concept which guarantees 100%-reliable delivery at a pre-determined service level and resulting lower operating costs, especially through economies of scale. The agreement with the all-cargo airline comprises 427part numbers.



China Cargo Airlines Photo: LHT

**Liebherr-Aerospace to overhaul landing gear systems for Fuji Dream Airlines**



Fuji Dream Airlines and Liebherr-Aerospace sign long-term service agreement Photo: Liebherr-Aerospace

Liebherr-Aerospace has signed a long-term service agreement in Japan: The Original Equipment Manufacturer will cover the overhaul of the landing gear systems of the 10 Embraer E170-family aircraft from Fuji Dream Airlines (FDA). Fuji Dream Airlines, with its main bases in Shizuoka and Nagoya, is an independent regional Japanese carrier who started its operations in July 2009. Today it offers daily flights to 17 domestic destinations in Japan. In order to safeguard continuous operation of its Embraer E170 fleet, Fuji Dream and Liebherr-Aerospace have recently reached an agreement covering the overhaul of the main and nose landing gear systems of the airline's Embraer E-Jet E170-family fleet.



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**MRO & PRODUCTION NEWS**

ent track record of outstanding customer service. KADEX Aero will continue to develop their own aviation business, while distributing PWI products to aviation dealers countrywide. KADEX Aero currently distributes several important aviation product lines in Canada from facilities in Calgary, Alberta and Peterborough, Ontario. KADEX will develop the PWI dealer network, supporting them with demonstrated expertise in product knowledge and meeting customer needs.

**StandardAero expands Hillsboro, Ohio component repair facility**

StandardAero Component Services has officially opened the company's 30,000 ft<sup>2</sup> expansion of its Hillsboro, Ohio, engine component manufacturing and engine component repair facility. The additional working space and capital improvements included the building and additional equipment to support aerospace engine low-pressure turbine vane manufacturing. The expansion also provides additional space for further growth. Kerry O'Sullivan, Chief Operating Officer of StandardAero, and Rick Stine, President of StandardAero Components, Helicopters & Accessories, joined Mark Greene, Vice President & General Manager of the company's Hillsboro facility, his leadership team and employees to dedicate the new expansion on September 20. The Hillsboro location expansion completes StandardAero's current plans for new building and expansion investments, which have also occurred at its Cincinnati, Miami and Kansas City locations over the last 18 months.

**S7 Technics to retrofit Wi-Fi modules into aircraft**

S7 Technics has added the installation of Wi-Fi modules to its capability menu of aircraft services. The maintenance provider has entered a new developing market to meet the growing needs of airlines in upgrading their aircraft with internet access. In the course of preparation for the first project that was launched with one of its strategic customers last year, specialists from Moscow's S7 Technics Domodedovo airport base visited the Czech Republic facilities of JOB AIR Technic, which has extensive expertise in such modifications. Having learned from the experience of their Czech counterparts, S7 Technics specialists, together with a project developer organization, have installed Wi-Fi modules on several narrow-body aircraft in Aeroflot's fleet. The retrofitting is divided into two stages: firstly, modules for distributing information from the on-board server and all necessary wiring are installed, then, secondly, the aircraft are equipped

**All Nippon Airways signs for Safran's nacelle support on A380 aircraft**

Safran Nacelles has signed a NacelleLife™ support contract with All Nippon Airways covering the carrier's three Airbus A380 aircraft. This ten-year agreement will allow All Nippon Airways (ANA) to benefit from OEM-guaranteed maintenance, repair and overhaul (MRO) solutions based on in-service experience at Safran Nacelles repair stations. The airline will also have access to Safran Nacelles' shared pool of spare parts and components, as well as the positioning of a spare nacelle air inlet at Honolulu. Providing the spare air inlet ensures on-site availability at ANA's destination in the mid-Pacific Ocean. ANA is Japan's largest airline and the latest A380 operator, receiving its first two of three aircraft earlier this year for use on the popular route between Tokyo and Honolulu in the U.S. Hawaiian Islands.



ANA and Safran Nacelles sign NacelleLife support agreement  
Photo: Safran Nacelles

**Vistara selects Airbus' FHS-TSP solution to maintain A320 fleet**



Vistara selects Airbus' FHS-TSP solution  
Photo: Airbus

Vistara, India's full-service carrier and a joint venture of Tata Sons and Singapore Airlines, has signed a long-term contract to partner with Airbus for their Flight Hour Services – Tailored Support Package (FHS-TSP). The contract will cover engineering and maintenance for 62 aircraft, including 23 existing ones. The FHS-TSP contract provides integrated and guaranteed services ranging from the supply and repair of components to the manufacturer's unique Fleet Technical Management service. An on-site Airbus team will support the

daily maintenance activities, including spares, warehousing and engineering to ensure the highest standards of aircraft technical dispatch and operations. Under the agreement, Airbus will offer its expertise in the areas of maintenance, engineering, reliability and supply chain management. Airbus will ensure a) timely availability of spare parts b) maintenance planning c) compliance with airworthiness advisories as well as technical records on all aircraft.

with external internet communication modules to connect to passengers' personal devices. From March of last year until September 2019, 34 Airbus A320s have undergone the first stage of retrofitting and S7 Technics specialists are now planning to carry out the second retrofitting stage on 26 Aeroflot aircraft during 2020.

**StandardAero delivers first GE90-115 fan case module from Cincinnati component repair facility**

StandardAero Component Services, located in Cincinnati, Ohio, has shipped its first GE90-115 engine fan case module (FCM) unit for one of its airline customers. The GE90-115 FCM is one

of the largest aircraft engine components in the industry and the GE90-115 is one of the world's largest jet engines, powering Boeing 777 aircraft. An appointed team from StandardAero visited the customer's European facilities in May of this year to review the repair process of similar FCMS. After the review, the team of technicians returned to Cincinnati to design, build and order all tooling and fixtures needed to support the repair process. The team then worked with the local FAA office to add the module repair work scope to StandardAero's Cincinnati capability list. StandardAero then performed 100% of all the disassembly, inspections, repairs and assembly and shipped its first GE90-115 FCM 15 days ahead of the customer-requested date.

**Advanced Engineering returns to the NEC, Birmingham**

**15,000 people celebrate a year of engineering success at Advanced Engineering**

On October 30 and 31, 2019, the largest annual gathering of engineering professionals, Advanced Engineering will take place at the NEC, Birmingham. Over two days, around 15,000 people will have the opportunity to meet with Original Equipment Manufacturers (OEMs) and supply chain partners from sectors spanning the engineering industry.

Bringing together thousands of attendees, Advanced Engineering incorporates all aspects of engineering within industries including aerospace, automotive, medical and many more. At the show, representatives from across the advanced engineering supply chain will present their latest innovations to its most influential stakeholders.



**Enabling Innovation**

This year's show introduces the revamped Enabling Innovation Zone, which allow innovators to showcase their inventions to thousands of key industry players. Advanced Engineering previously called for start-ups across all engineering sectors to apply for a place in the zone. The 2019 shortlist, which consists of ten small enterprises from across the UK, will each have a dedicated display plinth on the show floor in the Enabling Innovation Zone.

Nominees include businesses from a range of sectors including; Fluid Maintenance Solutions Ltd, which offers a coolant fluid management solution, and Texture Jet Ltd, which has devel-

oped a tooling platform that enables users to rapidly produce a variety of surface textures on components.

Supported by Innovate UK/KTN, the Institute for Manufacturing and Innovation DB, the zone has proven extremely successful in previous years, with one past exhibitor, Aceleron, being listed in the Forbes 30 Under 30 Class of 2017.

**Listen up – Open Forum Programme**

Advanced Engineering will once again be running an extensive Open Forum programme, with speakers from Siemens Digital Industries, BAE Systems, McLaren Automotive and IBM Academy of Technology, amongst many oth-

ers. For 2019, the event has secured a wealth of industry professionals to participate in forums that will discuss latest innovations in the industry.

The Open Forum programme covers five of the six show zones; aerospace, connected manufacturing, composites, automotive and medical device engineering.

**Voice of Industry**

Advanced Engineering will also celebrate the launch of its *Voice of Industry* report, bringing together the experiences of leading manufacturers on topics ranging from Brexit and the skills shortage to electric vehicles and product innovation.

The *Voice of Industry* report delves into the challenges that businesses have faced in recent years and explores the positive results they've had in overcoming uncertainty. It features interviews with senior figures in a variety of engineering businesses including Renishaw, Atlas Copco, Kawasaki Robotics and Xi Engineering.

With six shows under one roof, attendees will be able to access all their business solutions in one place — providing them with expertise from the breadth and depth of the advanced engineering industry.

*There's still time to register for a visitor pass for Advanced Engineering by visiting [www.advancedengineeringuk.com](http://www.advancedengineeringuk.com).*



*All photos: Advanced Engineering*

**DAE receives US\$1.4 billion investment mandate**



Photo: Dubai Aerospace Enterprise (DAE)

Dubai Aerospace Enterprise (DAE) had been mandated by one of the world’s largest fund managers to source and manage aircraft valued at approximately US\$1.4 billion.

DAE will acquire the assets and DAE’s Aircraft Investor Services (AIS) platform will manage the assets on behalf of the investor. The multi-year mandate will involve sourcing and managing the aircraft and assisting the investor with the capital structure for the acquired aircraft. The mandate will primarily target used narrow-body and wide-body aircraft sourced through DAE’s global relationships in secondary market trading and sale-and-leaseback channels.

The addition of this mandate will bring DAE’s managed portfolio to over US\$2.7 billion in assets under management. Coupled with other ongoing projects, DAE fully expects its managed portfolio to grow to its target of US\$5 billion.

**International Airlines Group (IAG) lowers annual guidance**

British Airways’ parent company International Airlines Group (IAG) has updated its full-year 2019 operating profit guidance. In a press release, IAG stated that during September, BALPA’s (British Airways main pilots’ union) industrial action initially scheduled for the 9, 10 and 27 of the month, led to an initial cancellation of 4,521 flights over a period of seven days. Subsequently, 2,196 flights were reinstated, leaving 2,325 cancellations. British Airways also introduced flexible commercial policies on 4,070 flights not directly affected by the industrial action. These policies enabled customers to re-book flights or receive a refund. The net financial impact of the industrial action is estimated to be €137 million. In addition, there were further disruption events affecting British Airways in the quarter, including threatened strikes by Heathrow Airport employees, which had a further net financial impact of €33 million. IAG estimates that the latest booking trends in its low-cost segments (primarily Vueling and LEVEL) will have an adverse financial impact of €45 million. At current fuel prices and exchange rates, IAG therefore expects its 2019 operating profit before exceptional items to be €215 million lower than 2018 pro forma (€3,485 million). Passenger unit revenue is expected to be slightly down at constant currency, compared to flat guidance previously, and non-fuel unit costs are expected to improve at constant currency, unchanged from previous guidance. Capacity growth, measured in ASKs, for the fourth quarter is now expected to be about 2 per cent, which is 1.2 points below previous guidance, and full-year capacity growth is expected to be about 4 per cent, compared to 5 per cent previously. (€1.00 = US\$1.12 at time of publication.)



Photo: © IAG

**Struggling Adria Airways halts flights through cash crisis**



Adria Airways

Photo: AirTeamImages

Slovenia-based Adria Airways has been forced to temporarily suspend operations on all but one of its routes as a consequence of a lack of liquid funds. The announcement comes only a day after the U.K.s Thomas Cook ceased all flights and entered into compulsory liquidation. The carrier will continue to operate between Ljubljana in Slovenia, and Frankfurt, Germany. Adria Airways has indicated it hopes the suspension will last for no more than two days while it explores solutions with a potential investor. Slovenia media has reported the suspension of flights has affected many thousands of passengers and the current situation has been described as “the biggest upset in Slovenian civil aviation in decades.” The airline, formerly Slovenia’s flag-carrying airline, was sold to 4K invest in 2016, who subsequently sold all its planes and instead now leases them. Current financial problems saw Adria Airways default on two aircraft leases which have subsequently been repossessed. The decision to suspend flights came after repeated delays and cancellations by the cash-strapped carrier.

**FINANCIAL NEWS**

**STS Aviation Group acquires Apple Aviation**

STS Aviation Group (STS), a leading global aviation solutions company, has acquired Apple Aviation, a world-wide MRO organization based out of the United Kingdom. With this acquisition, STS continues its recent global expansion. The company will immediately begin to offer aircraft Maintenance, Repair & Overhaul (MRO) services to customers at a state-of-the-art aircraft maintenance facility located in Newquay, England. The facility houses more than 150,000 ft<sup>2</sup> of space; 40,000 of which is dedicated as a parts processing facility. Mark Smith, president of STS Aviation Group, said "As some may recall, STS made a strategic move into Europe earlier this year after acquiring Triumph Aviation Services' NAAS Division. And with the recent acquisition of Apple Aviation, our company continues to grow on a global scale."

**Wheels Up Acquires Avianis Systems.**

Private aviation company Wheels Up, has entered into a definitive agreement to acquire certain material assets of Avianis Systems, LLC, a private aviation technology company that provides an advanced Flight Management System (FMS) for private aircraft owners, operators, management companies, charter brokers, and flight departments. Wheels Up is making significant investments in technology that will develop new functionality to help private aircraft operators digitize and streamline their services, allowing them to benefit from tools that simplify and speed up task completion via post-booking automation; calculate real-time pricing, feasibility and availability, and create new revenue streams through access to additional flight demand at scale. Avianis will continue to offer its FMS as a stand-alone solution to its existing and future customers.

**German courts look to protect Condor, the Thomas Cook subsidiary airline**

With the U.K.s Thomas Cook airline and travel agency now mired in compulsory bankruptcy proceedings, elsewhere the Group's subsidies are now scrambling to protect themselves from a similar fate. In Germany, a Frankfurt court has instigated investor protection proceedings in a bid to have Condor Flugdienst GmbH (Condor) restructured. Along with Thomas Cook GmbH, Condor is an independent unit of the British parent company Thomas Cook Group and the German government has already confirmed it will shore up the leisure

**MILITARY AND DEFENCE**

**Boeing MQ-25 unmanned aerial refueler completes first test flight**

Boeing and the U.S. Navy have successfully completed the first test flight of the MQ-25™ unmanned aerial refueler. The MQ-25 test asset, known as T1, completed the autonomous two-hour flight under the direction of Boeing test pilots operating from a ground control station at MidAmerica St. Louis Airport in Mascoutah, Ill., where the test program is based. The aircraft completed an autonomous taxi and takeoff and then flew a pre-determined route to validate the aircraft's basic flight functions and operations with the ground control station. The Boeing-owned test asset is a predecessor to the engineering development model (EDM) aircraft and is being used for early learning and discovery to meet the goals of the U.S. Navy's accelerated acquisition program. Boeing will produce four EDM MQ-25 air vehicles for the U.S. Navy under an \$805 million contract awarded in August 2018. The MQ-25 will provide the Navy with a much-needed carrier-based unmanned aerial refueling capability. It will allow for better use of combat strike fighters currently performing the tanking role and will extend the range of the carrier air wing.



Photo: Boeing MQ-25 unmanned aerial refueler

**Airbus A400M performs first helicopter air-to-air dry contacts**



A400M performing dry contacts with an H225M operated by Airbus Helicopters Photo: DGA Essais en vol

The Airbus A400M new-generation airlifter has successfully achieved its first helicopter air-to-air refueling contacts with an H225M. Over the course of four flights, operated in day conditions over the south of France, the A400M performed 51 dry contacts marking a decisive milestone towards its full capability as a tanker. These tests were performed under the coordination of the French "DGA Essais en vol" flight test centre. The tests, involving no fuel and

performed between 1,000 ft and 10,000 ft at flight speeds as low as 105 knots, confirmed the positive results of previous proximity flights conducted at the beginning of 2019. The next step in the flight test program will involve wet contact operations scheduled to take place before the end of 2019, ahead of final certification in 2021. The flight test campaign also included the first proximity trials between the A400M and an H160 helicopter requested by the French Defence Procurement Agency (DGA) in the frame of the feasibility study for the Guépard (future military multirole helicopter for the French armed forces). Tests were performed successfully.

**IAI delivers 100<sup>th</sup> F-35 wing to Lockheed Martin**

Israel Aerospace Industries (IAI) and Lockheed Martin have marked the delivery of the 100th advanced combat aircraft F-35 wing delivered by IAI at a ceremony held at the company's wing assembly line. The wing manufacturing center of IAI's aviation division was established in November 2014, and benefits from a strong international reputation thanks to extensive know-how and experience in making wings for the F-16 and T-38. The center is now expected to manufacture above 800 F35 wings by 2034. On December 2018, IAI inaugurated an innovative line for production of F-35 wing skins, expanding the collaboration between the two companies. The innovative assembly line of the F-35 wings complies with all of Lockheed Martin's manufacturing and quality assurance requirements. Since entering the production contract, IAI has invested multiple resources in the most advanced systems and technologies, establishing a production line characterized by utmost precision, stringent humidity and temperature control, and strict quality assurance. Among others, these measures allow the development of a unique, innovative composite part for the wings' uppermost section.



F35 wing

Photo: IAI

**FINANCIAL NEWS**

travel carrier with a €380 million (US\$4019 million) bridging loan. The U.K.'s government was approached for and rejected a request for a £200 million (US\$246 million) loan to enable the Group to remain operational and for a part sale / part financial restructuring to proceed. The German government has provided a bridging loan as Condor is not deemed insolvent and can therefore be saved. Condor is headquartered at Frankfurt airport, operates a fleet of 35 Boeing and Airbus jets, and flies to holiday destinations in the Mediterranean, Asia, Africa, North America, South America and the Caribbean.

**INFORMATION TECHNOLOGY**

At MRO Asia-Pacific in Singapore, **FLYdocs** has announced the next generation of aircraft leasing and financial management with its cloud-based Asset Management Platform. Originally launched at MRO Americas earlier this year, the FLYdocs Asset Management Platform is the first software platform to accurately predict the cost and interval of engine shop visits considering the geographical region of operation, FH:FC ratio, 1<sup>st</sup> Run or Mature Run, and % Derate if applicable. By using this platform, asset managers no longer need to adopt multiple software systems to manage their assets, contracts and EoL projects. FLYdocs offers a single platform which is integrated with its market-leading Aircraft Records Management, offering operators and lessors more clarity into their finances, helping them save time and get ahead with streamlining operations and driving business value. The FLYdocs team returned to MRO Asia-Pacific in Singapore to unveil the significant additions in software functionality and performance, which will provide operators and lessors with greater flexibility and control of their finances.

**HAECO Group** has selected **Revima's** Flightwatching predictive maintenance tool to power its inflight component and aircraft monitoring solution, INSIGHT. INSIGHT is an online platform that provides real-time monitoring and analysis of critical airline data which, together with remote troubleshooting, will bring operational value to airlines. In the next phase, INSIGHT will also provide key component reliability data for HAECO ITM's customers, facilitating preventive action against component defects. Revima's Flightwatching solution includes significantly enhanced data analytics to accurately predict impending failures and deteriorated performance of components, making it possible to take preventive



Tokyo

Photo: American Airlines

Next year **American Airlines** will launch a new service to **Tokyo's Haneda International Airport (HND)** from **Dallas Fort Worth International Airport (DFW)** and **Los Angeles International Airport (LAX)**. Beginning March 29, American and its Pacific Joint Business partner Japan Airlines will offer a total of five daily flights to HND from four U.S. cities: Los Angeles, Dallas-Fort Worth, New York and San Francisco. "Our flights to Haneda will provide access to downtown Tokyo with nonstop service from our Asia gateways — LAX and DFW," said Vasu Raja, American's Vice President of Network and Schedule Planning. "Haneda is just ten miles outside of Tokyo's city center, which is convenient for our customers traveling to business meetings downtown or for those who value access to fast and efficient public transportation."



Photo: JetBlue introduces the largest electric ground service equipment (eGSE) fleet at New York's JFK International Airport

**JetBlue**, New York's **Hometown Airline®**, is converting its fleet of baggage tractors and belt loaders – the largest part of its ground service equipment fleet at New York's JFK International Airport – to electric powered. With support from the Port Authority of New York and New Jersey and the New York Power Authority (NYPA), JetBlue is rolling out the largest fleet of electric ground service equipment (eGSE) at JFK. JetBlue is constantly looking for more-efficient technologies and sustainable fuel options. Electric bag tugs and belt loaders will replace the previous vehicles which were powered by gasoline. The new eGSE equipment will help reduce noise, improve energy efficiency and lessen JetBlue's environmental footprint. By converting to eGSE, additional benefits for JetBlue will include: cutting four million pounds of CO2 greenhouse gas emission (1,700 metric tons) per year –equivalent to the amount of CO2 absorbed by 2,100 acres of U.S. forests, reducing ground fuel usage by approx. 200,000 gallons of ground fuel a year and improving its bottom line with more than US\$500,000 in ground fuel savings annually.

**INFORMATION TECHNOLOGY**

action prior to aircraft or system operational defects. Flightwatching introduced this software in 2013, taking advantage of web-based tools, advanced graphic interfaces, big data analytics and patented aircraft remote diagnosis procedure.

**OTHER NEWS**

**MTU Maintenance**, a global leader in customized solutions for aero engines, has opened an office in the heart of the aviation leasing hub Singapore. The new office is in the Central Business District and its grand opening is being celebrated during the on-going MRO Asia. Luc Morvan has taken on the role of Chief Representative of MTU Maintenance's activities in Singapore. He will be responsible for building up business in the Asia-Pacific region.

**Spatial**, a provider of cabin crew training simulators, has announced that its ATR Emergency Evacuation Trainer for **Cebu Pacific** successfully passed its Factory Acceptance Test. This is the third device Spatial has manufactured for Cebu Pacific and covers all of the cabin exits in the aircraft. Spatial Composite Solutions in an ISO9001-certified provider of cabin crew training equipment, specializing in the manufacture of cutting-edge emergency evacuation, cabin service and door trainers. Additionally, the company provides consultancy services in relation to the design and fit-out of cabin crew training facilities.

A **Nordic** initiative to drive the development of electric aircraft is now being launched. Funded by **Nordic Innovation** (an organization under the Nordic Council of Ministers), a platform is created where Nordic players gather to develop the future of electric aviation. "Technological innovations are key in solving aviation's CO2 emission challenge", says Jaakko Schildt, Chief Operating Officer, Finnair. "In this project we are concretely creating the future of electric aviation, together, and taking an important step towards carbon-neutral flying."

"We will be a Nordic network that works with both infrastructure, industry issues and new business models", says Maria Fiskerud, project manager for **The Nordic Network for Electric Aviation** (NEA). The NEA network will organize workshops and other events to build knowledge and cooperation in the Nordic countries. At present, the network has eleven members: **Air Greenland**, Avinor, **Braathens Regional Airlines**, **El-fly AS**, **Finnair**, **Heart Aerospace**, **Iceland Air**,

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**NISA** (Nordic Innovation Sustainable Aviation), **RISE**, **SAS** and **Swedavia**. The network has four focus areas with clear objectives for driving the growth of electric aircraft: standardizing electric air infrastructure in the Nordic countries, developing business models for regional point-to-point connectivity between Nordic countries, developing aircraft technology for Nordic weather conditions and creating a platform for European and global collaborations.

**INDUSTRY PEOPLE**



Ian Hilton

- C&L Aerospace has hired **Ian Hilton** as Director of Business Development for Europe/Africa specializing in ERJ 135/145 and ATR 42-72 aircraft and PW127 and PW127M engines. Hilton has over 20 years of aviation experience consisting of parts sales, inventory management, procurement, logistics and PBH program management. Most recently, Hilton was Director of ATR Products for AAR Aviation Services and Commercial Director at ACLAS Global. Hilton will utilize his extensive product knowledge and inventory management background to support customers in getting the right aircraft parts efficiently and at the right price.



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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
A330-300	BBAM	Trent 772B-60	1544	2014	Jul 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
B737-5H6	Bristol Associates	CFM56-3C1	26445	1992	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B737-800	DVB Bank	CFM56-7B27	28178	1999	Q4/2019	Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
B737-800	ORIX Aviation	CFM56-7B26E	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
B747-400	Bristol Associates		28812	1999	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B747-400	Bristol Associates		30023	2000	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B757-223 (7x)	Jetran	RB211-535E4B	various	91/92	Now	Lease	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
B777-300ER	DVB Bank	GE90-115b	35161	2008	Q3/2019	Sale / Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
(2) B787-800					soon	Sale / Lease	Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775

## Regional Jet / Turboprop Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
CRJ-200LR	Regional One	CF34-3B1	8062	2006	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
CRJ-700	Regional One	CF34-8C5B1	10205	2005	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
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 Narayen	Auvinash.Narayen@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700124		Now	Sale / Lease	Auvinash Narayen	Auvinash.Narayen@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-145LR	Regional One	AE3007A1	145304	2001	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
ERJ-145LR	Regional One	AE3007A1	145331	2000	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164

## Commercial Engines

Multiple Types	Sale / Lease	Company	Contact	Email	Phone
Multiple Engines GE / CFM / RB211	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
<b>AE3007 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(3) AE3007A1P	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 786-623-3936
(1) AE3007A1	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Ben Ferguson	Benjamin.ferguson@rolls-royce.com	+44 7807 969 372
<b>CF34 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
CF34-8E5	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
CF34-10E	Now - Lease				
CF34-8C	Now - Lease				
CF34-3B1	Now - Sale				
CF34-3A	Now - Sale / Lease				
(2) CF34-8C5B1	Now - Sale / Lease	Regional One	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
(1) CF34-3B1	Now - Sale / Lease				
(2) CF34-10E	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(2) CF34-10E7	Now - Sale/Lease/Exch.	Werner Aero	Cliff Topham	ctopham@wernerero.com	+1-703-402-7430
(1) CF34-8E5A1	Now - Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204x202
(1) CF34-8C5B1	Now - Lease				
(1) CFM34-8C5A1	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
<b>CF6 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) CF6-80C2B6F	Now - Sale / Lease	GA Telesis	Eddo Wiejer	ewiejer@gatelesis.com	+1-954-676-3111
(1) CF6-80C2B1F	Now - Sale / Lease				
(1) CF6-80C2B7F	Now - Sale / Lease				
(1) CF6-80C2B1F	Now - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
<b>CFM Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(2) CFM56-5B	Q3/2019 - Sale / Lease	Contrail Aviation	Kevin Milligan	kevin@contrail.com	+1 949-933-0797
(1) CFM56-7B24	Sep 19 - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950



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## Commercial Engines (cont.)

(2) CFM56-5A	Now - Sale	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
(1) CFM56-5B3/3	Now - Lease	Rolls-Royce & Partners Finance	Charlie Ferguson	charlie.ferguson@rolls-royce.com	+44-(0)7772224895
(2) CFM56-7B27	Now - Lease	CFM Materials	Jimmy Hill	jimmy.hill@cfmmaterials.com	+1 -214-988-6670
(1) CFM56-7B26	Now - Lease				
(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 2019 - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
(1) CFM56-5B	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@werner aero.com	+1-703-402-7430
(1) CFM56-7B	Now - Sale/Lease/Exch.				
(2) CFM56-7B26/27	Now - Lease	Magellan Aviation Group	Bill Polyj	bill.polyj@magellangroup.net	+1 (704) 504 9204 x202
(2) CFM56-5B6/P	Now - Lease				
(1) CFM56-5B4/P	Sep 2019 - Lease				
(1) CFM56-5B3/P	Oct 2019 - Lease				
<b>JT8D and JT9D Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) JT8D-217C	Now - Sale	AZURE RESOURCES INC.	Jeff Young	jeff@azureres.com	1-954-249-7935
(1) JT8D-219	Now - Sale / Lease	LCHAerospace	Carlos Miranda	cmiranda@lchaerospace.com	+1 954-644-9617
<b>GE90 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(2) GE90-115	Now - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
<b>GENx Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) GENx1B74/75 Propulsor	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
<b>LEAP Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(2) LEAP-1B28	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) LEAP-1A33	Now - 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 Polyj	bill.polyj@magellangroup.net	+1 (704) 504 9204 x202
(2) PW123B/E	Now - Sale / Lease				
(1) PW127E/F/M	Now - Sale / Lease				
(1) PW150A	Sep 2019 - 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	jcmorin@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	Sep 19 - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(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				
(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 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@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
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),		GA Telesis		apu@gatelesis.com	+1-954-676-3111
(1) GTCP331-200ER, (1) GTCP331-350, (2) GTCP331-500, (1) PW901A					
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	rlewsley@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 / CFM56/ PW2000 & Bootstrap kits		National Aero Stands		support@stands.aero	+1 305-558-8973
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