

Weekly Aviation Headline News

WORLD NEWS

Copa Airlines links Suriname with Panama City

Star Alliance member Copa Airlines is to further expand its network in South America with a new non-stop flight connecting Suriname with its Panama City hub. The carrier will initially operate the route to Johan Adolf Pengel International Airport (PBM) in Paramaribo, the capital of Suriname, twice a week on Wednesdays and Saturdays from 10 July 2019, using Boeing 737-700 aircraft. The route is the first new international service that Suriname has secured in more than a decade

Jeju Air deploys Bluebox IFE technology

Jeju Air is now set to deploy Bluebox Wow portable wireless IFE across its fleet of Boeing B737-800s. The new IFE service is currently offered free to passengers on board 10 aircraft, with the total deployment increasing to 39 aircraft in April 2019. Bluebox Wow is currently entertaining passengers flying between Incheon airport and destinations such as: Bangkok, Guam, Saipan, Vientiane, Hong Kong, Macau, Kota Kinabalu and Da Nang.

Etihad Cargo gets CEIV for pharma logistics

Etihad Cargo is one of the first carriers to receive (CEIV) certification in pharmaceutical logistics. The airline is one of only 16 carriers to hold this important certification worldwide. The certifications cover both the airline operations of Etihad Cargo, as well as cargo handling and warehousing at its hub in Abu Dhabi, underlining Etihad's capability in maintaining product integrity and managing high-value, temperature-sensitive shipments for the pharmaceuticals and life sciences industries.



All new aircraft will be delivered with the new livery.

Photo: Aer Lingus

Aer Lingus unveils fresh new look

As it positions for growth on North Atlantic

Aer Lingus has unveiled a refreshed brand with updated logo and new aircraft livery, reflecting the airline's position as a modern and contemporary Irish brand that competes on the international stage. The new brand identity supports Aer Lingus' ambition to be the leading value carrier across the North Atlantic.

The new logo retains but restyles the iconic shamrock, adding a tilt to symbolise dynamism and speed, with heart-shaped leaves reflecting the warmth and hospitality of the brand.

The refresh is part of the airline's ambitious growth plan which will see Aer Lingus increase its North Atlantic fleet from 17 to 30 aircraft

by 2023. Overall, Aer Lingus plans to grow its A330 fleet to 16 aircraft (from 13 in 2017) and invest in 14 new A321LRs to provide capacity for growth across the Atlantic and within Europe.

Sean Doyle, Chief Executive Officer,

"We have ambitious plans for our future and the years ahead."

Sean Doyle, Chief Executive Officer, Aer Lingus

Aer Lingus said: "Aer Lingus is a modern Irish international success story, built on hard work, enterprise and the commitment of our people. We're delighted to unveil our brand refresh today, which comes more than 20 years after Aer

Lingus last invested in new brand livery, and reflects our position as a modern, contemporary airline. Aer Lingus has had exceptional success in recent years: adding new routes, new aircraft, new jobs.

"The refreshed brand reflects an airline that connects those living in Montreal to Marseilles; in Berlin to Boston; as well as those living in Cork to Croatia. The benefit for Ireland of being at the fulcrum of such connections is considerable and we in Aer Lingus are determined to realise this potential for Ireland.

"We have ambitious plans for our future and the years ahead, yet we

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MRO

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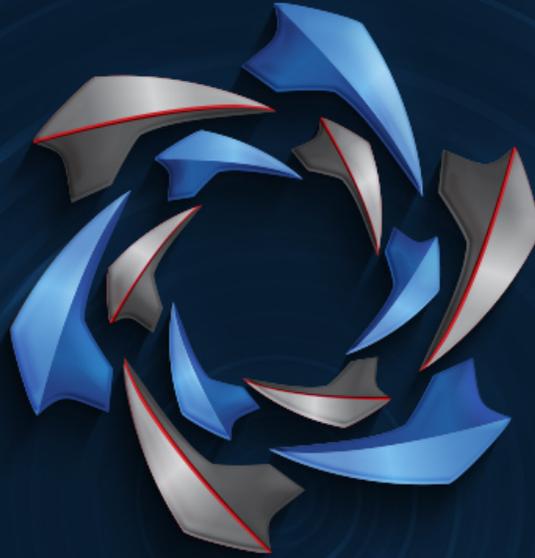
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are aware of challenges facing the modern industry and thus investment in our new brand identity and livery; our new uniforms which will be unveiled later this year; and our fleet expansion are considered investments in the future of Aer Lingus to enable us realise our

ambition to be the leading value carrier across the North Atlantic.”

The brand refresh is being delivered in keeping with Aer Lingus’ value carrier model, as part of the company’s business as usual aircraft paint-

ing programme. All new aircraft will be delivered sporting the new livery and the updating of digital assets has been done in a highly cost-effective manner, the airline said.

AIRCRAFT & ENGINE NEWS

AJW GROUP purchases Boeing 777-LR for teardown

AJW Group has purchased a Boeing 777-200 LR airframe, installed with GE90 110/115 engines, for teardown. The aircraft was delivered on January 12. The Boeing 777-200LR airframe is compatible with both 777-300ER and B777F aircraft, of which there were 976 in service as at 06/09/2018. All components will be re-certified by AJW Technique, Montreal. Ian Malin, Director and Chief Investment Officer AJW Group said: “AJW’s inventory of Airbus and Boeing spares is located in strategic hubs across the globe, our latest teardown of these B777 –LR aircraft further ensures that our customers’ operations are fully-supported through access to our pool of high-quality material. As the B777-300 fleet starts to mature, with approximately 1000 aircraft in service, AJW is using this airframe to ramp up its inventory in this platform to complement its already comprehensive global narrow body inventory pools. This strategy is calculated and deliberate to position AJW as the ‘go-to’ source for B777 material for the next decade.”

Willis Lease Finance closes ten-aircraft sale-and-leaseback transactions with easyJet

Willis Lease Finance Corporation has closed a sale and leaseback transaction on ten Airbus A319 aircraft with easyJet. The aircraft are powered by CFM56-5B engines. The deal combines elements from across the Willis Platform, including leasing, trading, and asset management businesses, to provide a tailored solution designed to support easyJet in the fleet management of its existing aircraft as it introduces the latest generation of Airbus A320neo family aircraft.

SkyWorks reports fourth-quarter 2018 activities

SkyWorks Holdings has announced transactions and activities performed during the fourth quarter (Q4) 2018 for its Leasing & Asset Management Group.

Acropolis Aviation accepts first Airbus ACJ320neo



The first ACJ320neo

Photo: Acropolis Aviation

Acropolis Aviation, the U.K. VVIP charter operator, accepted the first Airbus ACJ320neo on January 16, at Airbus’ Toulouse, France, headquarter. Powered by CFM LEAP-1A engines, the aircraft will fly on to Basle, Switzerland where cabin outfitting will immediately commence by AMAC Aerospace. Its new Alberto Pinto cabin interior, which meets Acropolis’ unique specification, will be installed over the coming months. “This is an historic day for Acropolis Aviation, and we are very much looking forward to presenting the aircraft to our clients at the end of the year,” commented CEO Jonathan Bousfield. Airbus ACJ President Benoit Defforge added: “Delivery of the first ACJ320neo is the latest milestone in the roll-out of a completely new ACJ family, enabling even more of the comfort, range and value prized by business jet customers.”

On behalf of Modern Logistics, Brazil, SkyWorks sourced and arranged an operating lease for one additional 737-300SF aircraft (its 4th 737SF). SkyWorks also renewed its engagement with Modern Logistics to provide continued aircraft sourcing and fleet analytical support services.

On behalf of a US investor, SkyWorks arranged a long-term lease extension with American Airlines for one A319-100. On behalf of its Sierra Echo Aircraft Leasing Limited vehicle, SkyWorks closed on the acquisition of eight Boeing and Airbus aircraft from four different sellers. The aircraft are on lease to five different operators globally and will be managed by SkyWorks Leasing (Ireland) Limited. SkyWorks was retained by Aviator Capital to arrange the sale of a portfolio consisting of five commercial jet aircraft and two engines on lease to various operators. The

RFP has been launched and closing is scheduled for Q2 2019. SkyWorks was retained by a U.S. investor to perform lease return and aircraft remarketing services for one 737-700, available Q3 2019, and one 777-300ER, available Q1 2021.

CDB Aviation reports record activity and growth in 2018

CDB Aviation, a wholly owned Irish subsidiary of China Development Bank Financial Leasing Co., Limited (CDB Leasing), has reported a record year for 2018, in which the company executed transactions involving 107 aircraft, rapidly accelerating business to support the continued growth of its leasing platform. During 2018 the company signed lease transactions for 62 aircraft with 22

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AIRCRAFT & ENGINE NEWS

customers, signed agreements to sell 17 aircraft and to acquire 28 aircraft, acquired 42 aircraft on operating lease, representing over 20% growth by number of aircraft in the fleet at the start of 2018. CDB Aviation signed financing transactions for US\$3.2 billion and ended the year with 104 total employees, adding 36 new staff members in 2018 and 9 new airline customers.

Skyworld Aviation arranges sale of one Dash 8 Q400

On behalf of AeroCentury Corp, Skyworld Aviation has sold one Dash 8 Q400 to Magellan Aviation Services. Skyworld was exclusively mandated to market serial number 4021 after its return from lease with LAM Mozambique. This sale comes after the placement of its sister ship, serial number 4019, to Voyageur AvParts.

BOC Aviation reports operational data for fourth quarter and year ended 2018

BOC Aviation has reported its operational update for the fourth quarter and year ended 31 December 2018. Commenting on the operating results, Robert Martin, Managing Director and Chief Executive Officer said: "BOC Aviation celebrated its 25th year anniversary in 2018, which was another year of strong operational performance. We took delivery of 55 aircraft, including our first Boeing 737 MAX family aircraft and Airbus A321NEO aircraft. During the year, we added another 65 aircraft to our pipeline and grew our orderbook to 183, setting the foundation for future revenue growth."

Key features included:

- A total fleet of 511 aircraft owned, managed and on order
- An average aircraft age of 3.0 years and an average remaining lease term of 8.3 years for the 303 owned aircraft fleet, weighted by net book value
- Order book of 183 aircraft
- Took delivery of 19 aircraft in the fourth quarter of 2018, and 55 (including five acquired by airline customers on delivery) in 2018
- Signed 27 lease commitments in the fourth quarter of 2018, bringing the total for 2018 to 92
- Customer base of 93 airlines in 37 countries and regions in the owned and managed portfolios
- Sold seven owned aircraft in the fourth quarter of 2018, including one aircraft subject to finance lease, which brought the total number of owned aircraft sold during the year to 34. Additionally, seven managed aircraft were sold in 2018 on behalf of third-party investors
- Managed fleet comprised 25 aircraft
- Aircraft utilization at 99.9% for the year ended December 31, 2018

United Airlines places orders for 737 MAX and 777



United places additional order for 737 MAX and 777 aircraft

Photo: Boeing

Boeing and United Airlines have confirmed that the carrier ordered 24 additional 737 MAX jets and four more 777-300ER (Extended Range) airplanes last year. The US\$4.5 billion order, according to list prices, was booked as unidentified on Boeing's Orders & Deliveries website. The Chicago-based airline has steadily placed new orders for the two Boeing jets to serve its large domestic and international network. United Airlines is among the more than 100 customers who have made the 737 MAX the fastest-selling airplane in Boeing history, receiving more than 5,000 orders since the program's launch.

AerCap delivers first of four 787-9s to EL AL



AerCap delivers first of four 787-9s to EL AL

Photo: AerCap

AerCap Holdings N.V. has delivered one new Boeing 787-9 Dreamliner on long-term lease to EL AL. This is the first of four new 787-9 aircraft to deliver to EL AL from AerCap's order book with Boeing. The remaining three aircraft will deliver through 2019. Aengus Kelly, CEO of AerCap said, "The delivery of our first 787 to EL AL heralds the next chapter in the long history of successful cooperation between our two companies. We are very pleased to support EL AL's ongoing fleet modernization program and we thank them for the confidence they have placed in AerCap."

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A220 airliner wins approval from Transport Canada for 180 minutes ETOPS capability

The newest addition to the Airbus family of commercial aircraft, the A220, has received 180-minute extended operations (ETOPS) approval from the Canadian civil aviation authority, Transport Canada. This achievement paves the way for A220 customers to start new direct non-limiting routings over water, remote or underserved regions. “This A220 ETOPS milestone adds to the numerous performance capabilities which the unbeatable A220 Family already offers,” said Florent Massou, Head of Airbus’ A220 Programme. “Being the only in-production aircraft in its class capable of performing both steep approach and long-range operations, the A220 is definitely unlocking new route opportunities for airlines,” added Rob Dewar, Head of Engineering and Customer Support, A220 Programme. The A220 is the first commercial airliner to obtain domestic ETOPS certification from Transport Canada. This capability is available as an option for A220-100 and A220-300 operators, enabling them to fly for up to 180-minutes from the nearest diversion airport.



The A220 receives 180-minute extended operations (ETOPS) approval from Transport Canada
Photo: Airbus

MTU Aero Engines Polska supplies 1000th low-pressure turbine for Pratt & Whitney GTF engine



MTU Aero Engines Polska

Photo: MTU

MTU Aero Engines’ technology is in each and every geared turbofan (GTF) engine produced for the Airbus A320neo. Its Polish subsidiary, MTU Aero Engines Polska, started to assemble the first low-pressure turbine for the geared turbofan model PW1100G-JM about three and a half years ago. At the end of 2018, the MTU site in Poland completed the 1000th module and delivered it to Pratt & Whitney. For MTU, this marks another milestone in the production ramp-up of this game-changing engine program at its site in Rzeszów. Pratt & Whitney GTF engines are already in service on more than 350 aircraft and with 32 airlines. As things stand, more than 80 airlines around the world have ordered thousands of the GTF propulsion systems. In all, there are five applications for Pratt & Whitney’s GTF engine family: it powers the A320neo by Airbus and it is the sole engine choice, for the A220 (formerly known as the Bombardier C Series), the MRJ from Mitsubishi, the new E170-E2 and E190-E2 E-Jet families from Embraer; and the

MC-21 from Russian aircraft manufacturer Irkut. MTU Aero Engines Polska has made a key contribution to the ramp-up of the eco-efficient GTF engine since 2015 by assembling the low-pressure turbines. The site in Poland also designs and produces components and airfoils for low pressure turbines. In addition to GTF engines, these parts are also used for the Airbus A320 and A380, the Boeing 787 Dreamliner and 777X, and for business jets such as Cessna and Gulfstream. The company also assembles the low-pressure turbines for various engines, as well as turbine center frames. The LM6000 series by General Electric is another of its fields of expertise.

TrueNoord acquires two Embraer E195s on lease to Azul

Regional aircraft leasing specialist TrueNoord has acquired two Embraer E195s on lease to Azul Linhas Aéreas Brasileiras S.A. Financing was provided under TrueNoord’s recent term loan warehouse facility supported by Morgan Stanley, NORD/LB Norddeutsche Landesbank and Barclays. Legal services were provided by Hogan Lovells and Stek. The aircraft were purchased with leases attached from CCB Financial Leasing Corporation Ltd. “CCB Leasing is very pleased to have taken a further step into the optimization of our lease portfolio, widening our business relationship with the global aircraft leasing industry. We enjoyed dealing in this swift and successful transaction with Truenoord” added Jim Liu, Managing Director of CCB Leasing (International) Corporation DAC registered in Dublin, Ireland.



Two Embraer E195s for Azul

Photo: TrueNoord

MRO & PRODUCTION NEWS

Pula Aviation widens business aviation portfolio

Guernsey based Pula Aviation, parent company of Centreline AV, is expanding its footprint in business aviation with the announcement that it has acquired 100% of the share capital of ASG, a Guernsey based operation which specializes in business and general aviation maintenance and executive ground handling, and the sale and acquisition of business aircraft. Together with Centreline AV, ASG will form part of a new group holding company 'Pula Aviation Services Ltd' offering aircraft management and charter, maintenance, aircraft sales and executive ground handling, supported by a 100-strong workforce. Centreline's current CEO, Tanya Raynes will become Chair of the new Pula Aviation Services in March, when she will relinquish her day-to-day role with Centreline, while Steve Page, who has led ASG since 2014, becomes CEO of the new company.

ST Engineering's Aerospace arm secures contracts worth S\$450m in 4Q2018

Singapore Technologies Engineering (ST Engineering) has reported that its Aerospace arm has secured new contracts worth about S\$450 million in the fourth quarter (4Q) of 2018 for services including maintenance and modification for wide-ranging aircraft parts from the airframe to components. A number of new contracts secured in 4Q2018 are for airframe heavy maintenance checks to service both commercial aircraft and private jets. These include a contract from a major North American airline to carry out heavy maintenance services to its A321s for the first time. In addition to airframe maintenance, the same North American airline also awarded a contract for an in-seat power supply, overhead bin and galley modification program for its entire suite of 48 A320s. ST Engineering continues to win multi-year contracts as it maintains the confidence of repeat customers with high-quality redeliveries. Multi-year contracts won in 4Q2018 include a five-year component maintenance-by-the-hour contract extension to support an Asian airline's entire fleet of B737NG/MAX aircraft. The Aerospace sector redelivered a total of 213 aircraft for airframe heavy maintenance and modification work in 4Q2018. Additionally, a total of 11,212 components, 50 landing gears and 41 engines were processed, while 2,515 engine washes were conducted. In China, the sector expanded its airframe maintenance portfolio when its Guangzhou facility obtained approval from the Civil Aviation Authority of Malaysia to carry out base maintenance for the A320neo platform.

Construction begins on Airbus' U.S. A220 manufacturing facility

Airbus' manufacturing growth in the United States advanced another step on January 16, in Mobile, Alabama, as construction of the company's A220 Manufacturing Facility officially launched with a groundbreaking ceremony. The assembly line will satisfy the strong and growing U.S. demand for the A220 aircraft, the newest offering in Airbus' commercial aircraft product



Groundbreaking ceremony in Mobile, Alabama for A220 manufacturing facility
Photo: Airbus

line. The new assembly line, which is the company's second U.S.-based commercial aircraft production facility, will be located at the Mobile Aeroplex at Brookley adjacent to the A320 Family production line and will facilitate assembly of A220-100 and A220-300 aircraft for U.S. customers. Aircraft production is planned to begin in Q3 2019; with first delivery of a Mobile-assembled A220 aircraft scheduled for 2020. The new A220 production facilities will be complete by next year. Airbus has strong and longstanding ties to the United States, with Airbus aircraft being operated by the largest airlines in America. Additionally, Airbus is a major partner of U.S. aerospace companies and workers. In the last three years, Airbus spent US\$48 billion in the United States with hundreds of U.S. suppliers in more than 40 states, translating into Airbus support of more than 275,000 American jobs. Among its facilities in the U.S., Airbus has: engineering centers in Kansas and Alabama; a major training facility in Florida and soon one in Colorado; materials support and headquarters in Virginia; an A320 Family assembly line delivering aircraft in Alabama; an innovative think tank (A3) in California; a drone-data analysis business (Airbus Aerial) in Atlanta, Georgia; helicopter manufacturing and assembly facilities in Texas and Mississippi; and a satellite manufacturing facility (OneWeb) in Florida.

FADEC Alliance signs agreement with Lufthansa Technik



An agreement between FADEC Alliance and Lufthansa Technik ensures global availability for LEAP engine controls
Photo: FADEC

FADEC Alliance, a joint venture between GE Aviation and FADEC International, has signed a 25-year agreement with Lufthansa Technik to provide Full Authority Digital Engine Controls (FADEC) availability services for LEAP engines globally. Lufthansa Technik and FADEC Alliance will use the engine controls for support agreements, loans and exchanges across their global airline customer bases to bring a full selection of asset management

services to the commercial transport industry. The agreement covers asset management, logistics and maintenance, repair, and overhaul (MRO) support. Lufthansa Technik will manage a global pool of line replaceable units (LRU) in order to provide availability to both Lufthansa Technik and FADEC Alliance airline customers. Lufthansa Technik will establish a certified repair station in Hamburg, Germany for the LEAP FADEC. FADEC Alliance will provide technical support from the FADEC Alliance MRO network located in Massy, France and Fort Wayne, Indiana. LEAP engines equipped with FADEC Systems are used on Boeing 737 MAX, Airbus A320neo and COMAC family 919 aircraft. The FADEC – consisting of digital computers, called engine control units and a pressure sub-system – controls all aspects of aircraft engine performance, such as engine fuel flow and variable engine geometries. Both parties will use the pool to support their customers for loans and exchanges of LEAP FADECs, to provide high availability and high performance asset services, and to maximize efficiency for airlines. The LEAP engine is a high-bypass turbofan produced by CFM International, a 50-50 joint venture company between GE and Safran Aircraft Engines.

MRO & PRODUCTION NEWS

Airflow Solutions receives EASA Part-145 approval

Airflow Solutions has received European Aviation Safety Agency (EASA) Part-145 approval. Under the certificate, the company is now fully authorized to perform repairs on all items within their Operation Specifications. Airflow Solutions provides expert level services in a wide variety of metal and composite repairs. These include bonding, solid laminate repairs, metal-to-honeycomb repairs, metal-to-metal repairs, AOG support, and painting.

HAECO Xiamen performs cabin reconfiguration for Virgin Atlantic

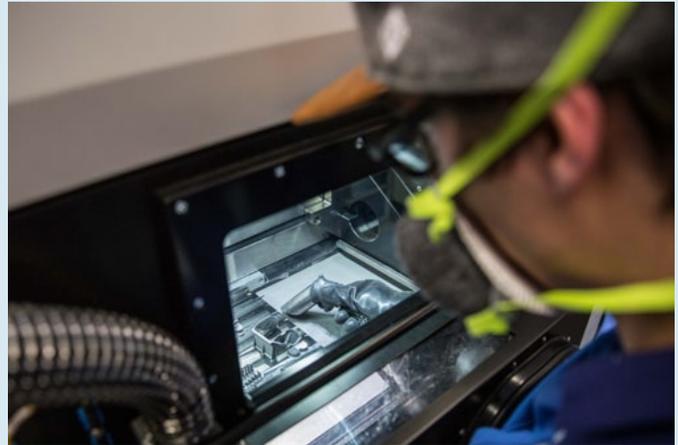
HAECO Xiamen, a member of the HAECO Group, has successfully completed cabin modification work on the first of Virgin Atlantic Airways' four Airbus A330-200 aircraft. The cabin received a complete makeover with brand-new business class suites unique to the A330-200, the addition of premium economy class, re-pitched economy class seats, newly fabricated carpets, an upgraded IFE system, and modified lavatories. The successful completion of this prototype marks another achievement in HAECO Xiamen's partnership with Virgin Atlantic, following cabin modification programs for the airline's Boeing 747-400 and Airbus A330-300 fleets.

Lufthansa Technik and JAL expand partnership on Total Component Support services

Lufthansa Technik and Japan Airlines (JAL) have expanded their trusted partnership by entering into a long-term agreement on Total Component Support (TCS®) services for the carrier's Airbus A350 fleet. For a period of ten years the new contract covers the majority of Japan Airlines' Airbus A350 components. The contracted services include maintenance, programs for reliability monitoring and enhancement as well as logistic services. Currently JAL holds 31 firm orders and 25 options for the state-of-the-art long-range jet. With the new agreement, Japan Airlines and Lufthansa Technik continue to expand their successful relationship which already includes a variety of MRO services. Among others, Lufthansa Technik has been providing TCS® services for Japan Airlines' Boeing 787 fleet since 2011.

Liebherr-Aerospace Starts serial production of 3-D printed components

Liebherr-Aerospace has begun printing 3-D components for Airbus. Following approval from the European aircraft manufacturer, first equipment fit for flight that Liebherr will be supplying will be nose landing-gear brackets for the Airbus A350 XWB. Liebherr has collaborated intensively with Airbus over the past few years and development of additive manufacturing is advancing at a fast pace. These brackets will be the first ever introduced Airbus systems parts to be qualified for printed titanium. In the fall of 2017, Liebherr-Aerospace Lindenberg GmbH, Liebherr's center of excellence for flight control systems, landing gears, gears and gearboxes, has reached a key milestone: authorization by the German Federal Aviation Office (Luftfahrtbundesamt, LBA) to produce components using additive manufacturing. Liebherr has since been printing Class 2 and Class 3 titanium serial parts, delivering them under EASA Form 1.



3D printing

Photo: Liebherr Aerospace

Magnetic MRO provides aircraft for fight against terrorism



Magnetic MRO completes teardown project for an Airbus A320

Photo: Magnetic MRO

Tallinn-based Total Technical Care partner Magnetic MRO has completed a teardown project for an Airbus A320 aircraft which will be used for fight against terrorism in Germany by special forces. Magnetic MRO obtained the aircraft after an emergency landing in Tallinn at the start of 2018. In cooperation with a Netherlands partner organization, XTRAPartners, the airframe found its way to the German Bundeswehr for training of its special forces. The teardown project took place over a course of a few weeks in Tallinn Airport where the aircraft had its stabilizers and both wings removed. The aircraft was transported to Calw, near Stuttgart, with five large trucks and in addition to careful maneuvering in Estonia and Germany, it also involved marine transport from Paldiski, Estonia to Lübeck, Germany. "We had done teardown projects before but nothing of this scope," stated Maksim Kolesnik, Facility and Tooling manager of Magnetic MRO. "The logistics of the teardown and especially the transport provided huge challenges, but after months of hard work we were successful in delivering an aircraft that will now be used for a good cause."

Delta TechOps continues to grow MRO business with major investments

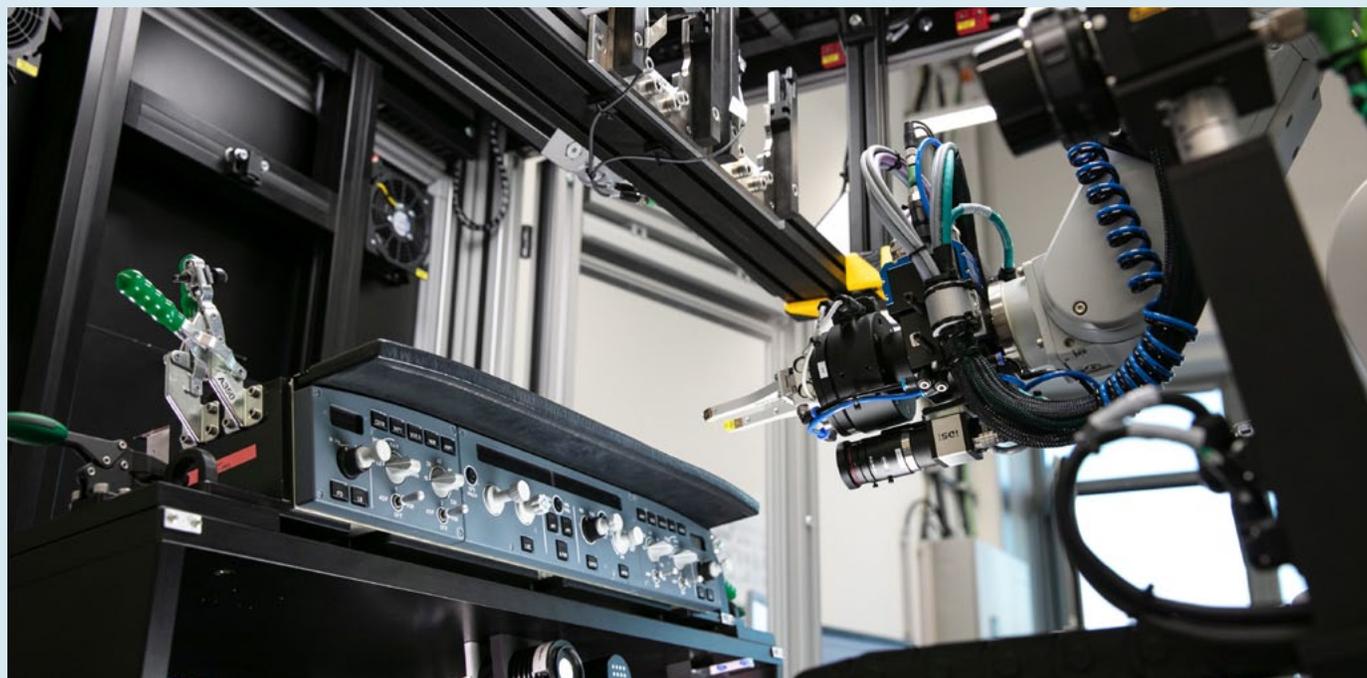


Delta TechOps employees below a wing

Photo: Delta

In 2018, Delta TechOps continued to invest in and grow its Maintenance Repair and Overhaul business, resulting in record-breaking financial growth, expanded capabilities, increased work with new partners and continued work with current partners. As the largest aviation maintenance group in North America, Delta TechOps highly skilled workforce of over 10,000 technicians, engineers and other support employees provide full-service maintenance to more than 850 Delta aircraft and their engines as well as maintenance services to more than 150 other operators, cargo operators and the military & government, through the airline's MRO business. Looking forward to 2019, Delta TechOps will open the largest test cell, which will be capable of safely running a mounted, stationary engine at full power with 150,000 pounds of thrust. Through expanded capabilities and new facilities, Delta expects to grow the top line of the MRO business by US\$1 billion a year in the next five years.

LHT develops first cockpit panel test robot



Robot Controlled Cockpit Electronics Testing, RoCCET

Photo: LHT

Lufthansa Technik AG has developed the first robot for fully automated tests of cockpit controls. The test procedure is called RoCCET, which stands for Robot Controlled Cockpit Electronics Testing. In the future, RoCCET will be used to check the functionality of LED lights and switches on the basis of concrete, standardized measurement data. The robot-based procedure is currently in the integration phase. The robot has integrated sensors to measure the forces that occur when switches are activated. In addition, it is equipped with several industrial cameras

with which it captures all display instruments and any outer damage. With another camera, it measures the brightness of all displays from various angles. The robot is thus able to check all switches and LEDs just as well as a human and perform defined functional tests. The robot-based test procedure will initially be used for cockpit controls on Airbus A320 and A350 as well as Boeing 787 aircraft. In the future, its use may also be extended to other cockpit and cabin controls on all aircraft types at various locations.

FINANCIAL NEWS

Embraer presents preliminary forecast for 2019 and 2020

On January 16, Embraer presented its preliminary forecast for 2019 and 2020 at a meeting with investors at the New York Stock Exchange. For 2019, Embraer expects to deliver between 85 and 95 commercial jets, 90 to 110 executive jets, including light and large jets, 10 A-29 Super Tucano aircraft and two multi-mission KC-390 aircraft. Total consolidated revenues should be between US\$ 5.3 billion and US\$ 5.7 billion. The Company expects to achieve a consolidated EBIT margin of breakeven (approximately zero) for the year 2019. It is important to highlight that 2019 guidance includes potential costs and expenses associated with the creation of the Commercial Aviation JV in a strategic partnership between the Company and Boeing, under the terms of the associated material facts published by Embraer. With the finalization and closure of the partnership operation described above, tentatively expected to occur by the end of 2019, Embraer anticipates a capital structure without leverage, with a net cash position of approximately US\$ 1.0 billion after the payment of a special dividend to shareholders of roughly US\$ 1.6 billion (which remains subject to the confirmation of certain requirements, including the fiscal year results). During the event in New York, Embraer also presented its guidance for the year 2020, the first year after the potential closure of the operation creating the strategic partnership between Embraer and Boeing in Commercial Aviation, as mentioned above. The guidance presented for 2020 includes 100% of the expected results of the Executive Jets and Defense & Security segments (and the results of their respective services and support businesses) and exclude expected financial results coming from the 20% stake Embraer will have in the Commercial Aviation JV in partnership with Boeing. Embraer expects to have net revenues of between US\$ 2.5 billion and US\$ 2.8 billion, EBIT margin of between 2% and 5%, and roughly breakeven free cash flow for 2020.

Aireon signs US\$200 million credit facility with Deutsche Bank

Aireon has signed a credit facility agreement for US\$200 million with a group of several independent investor funds led by Deutsche Bank. This credit facility provides Aireon with the resources to fund various company initiatives and to continue to pay Iridium for the costs related to the integration, launch and hosting of the AireonSM payload on each of the 81 Iridium® NEXT satellites. The agreement was signed on December 21st, 2018. This announcement comes just days after the final launch of Iridium NEXT satel-

Air Canada makes improvements to capacity purchase agreement with Jazz Aviation



Photo: Air Canada

Air Canada has signed an agreement to amend and extend the Capacity Purchase Agreement (CPA) with Jazz Aviation, a wholly owned subsidiary of Chorus Aviation, under which Jazz currently operates certain regional Air Canada Express flights. The amendments should provide long-term stability for Chorus, reaffirming Jazz as Air Canada's most significant Express carrier well into the future, as well as enabling growth on Chorus' leasing business through Air Canada's equity investment and the predictability of Jazz's cashflow from CPA operations until 2035. The amendments will bolster the strength and competitiveness of the Air Canada Express brand and its coast-to-coast regional network, and provide significant CPA savings for Air Canada, while optimizing network and fleet flexibility when compared to the current agreement. "We are very pleased to have arrived at this win-win agreement with Jazz and Chorus, which will give us long-term stability, more competitive cost certainty and the flexibility to modernize the regional fleet for the benefit of our customers. The amendments will allow us to provide regional services more cost effectively so that we can compete more efficiently, deploying the aircraft best suited for a given regional market and also generate additional traffic to feed our international network," said Calin Rovinescu, President and Chief Executive, Air Canada. "As further demonstration of Air Canada's commitment to a successful, long-term partnership, upon the CPA Amendments becoming effective, we will make an equity investment of CA\$97.26 million (US\$73.12) in Chorus. In addition to aligning our mutual interests, we believe it represents excellent value for Air Canada shareholders." "We have jointly seized this unique opportunity to strengthen our long-term partnership for the next 17 years," stated Joe Randell, President and Chief Executive Officer, Chorus. "We look forward to welcoming Mike Rousseau to our board of directors as his expertise will be truly valuable as we continue to execute on the growth and diversification strategy for Chorus."

lites and their Aireon-hosted payloads. The eleven long-term contracts signed with its launch Air Navigation Service Provider (ANSP) customers have provided Aireon with a strong financial foundation. Aireon has already started paying the US\$200 million hosting fee owed to Iridium, and this new credit facility has enabled the company to pay another US\$35 million in 2018 for a total of US\$43 million to date.

Delta Air Lines announces December quarter and full-year 2018 profit

Delta Air Lines has reported financial results for the December quarter and full-year 2018. Adjusted pre-tax income for the December quarter 2018 was US\$1.2 billion, driven by over US\$700 million of revenue growth, allowing the company to fully recapture the US\$508 million

increase in adjusted fuel expense and produce an 11% adjusted pre-tax margin. Adjusted earnings per share increased by 42% year over year to US\$1.30. For the full year, adjusted pre-tax income was US\$5.1 billion, a US\$137 million decrease relative to 2017 as the company overcame approximately 90% of the US\$2 billion increase in fuel expense. Full-year adjusted earnings per share were US\$5.65, up 19% compared to the prior year as the company recognized benefits from tax reform and a 4% lower share count. Delta's adjusted operating revenue of US\$10.7 billion for the December quarter improved 7.5%, or US\$747 million versus the prior year. Total unit revenues excluding refinery sales (TRASM, adjusted) increased 3.2% during the period driven by healthy leisure and corporate demand, offsetting an approximately 0.5 point headwind from unfavorable foreign exchange rates. For the full year, adjusted operating revenue grew to

FINANCIAL NEWS

nearly US\$44 billion, up 8% versus prior year on an increasingly diverse revenue base, with 52% of revenues from premium products and non-ticket sources. Premium product ticket revenues increased 14% along with double-digit percentage increases from cargo, loyalty, and Maintenance, Repair and Overhaul revenue.

Ardian in talks to acquire majority stake in Revima

Ardian, a private investment house, has confirmed that it is in exclusive talks to acquire a majority stake in Revima, a leading MRO (Maintenance, Repair & Overhaul) solutions provider for aircraft equipment, from private equity firm Argos Wityu. Following the transaction, Olivier Legrand, President of the Group, and Argos Wityu will reinvest alongside Ardian. This transaction is subject to approval from the antitrust authorities as well as the opinion of the works council. Founded in 1952, Revima is an independent company which has become a leader in the maintenance, repair and overhaul of commercial transport aircraft equipment. The group is well-known for its expertise in the maintenance of auxiliary power units (APU) and landing gears for regional, medium- and long-haul aircraft. The company, which has c.750 employees, realized revenues of more than €280 million (US\$319 million) in 2018, showing double digit growth for several years.

TurbineAero acquires APU piece part repair business from Triumph Group



TurbineAero Asia Operations Team

Photo: TurbineAero

TurbineAero, a portfolio company of The Gores Group, has acquired the APU piece part repair product line (RPL) from Triumph Aviation Services Asia. The acquisition of this business segment integrates APU piece part repair into the APU Systems MRO in TurbineAero's Asia facility which increases in-house capabilities, improves turn-times and assures extra cost reduction. Effective immediately, the integration will take place in TurbineAero Asia's new Thailand-based 80,000 ft² facility which will house up to 250 employees and will handle high-technological testing, maintenance, repair and overhaul activities for aircraft components and systems for its worldwide customers, including APU MRO, LRUs and APU part repair.

MILITARY AND DEFENCE

AAR awarded 7-Year engine MRO contract for Royal Danish Air Force

AAR, an independent provider of global aftermarket aviation services, has been awarded a seven-year contract by the Danish Defence Acquisition and Logistics Organisation (DALO) to perform maintenance, repair and overhaul of Pratt & Whitney F100-220 engine components on the General Dynamics F-16 for the Royal Danish Air Force (RDAF). AAR's MRO Services Component Repair Amsterdam facility has been supporting European Participating Air Forces (EPAF) as either a prime or a subcontractor performing repair management, component maintenance, supply chain and depot services for more than three decades.

Southeast Aerospace wins opportunity on US\$50 billion Seaport Next Generation contract



Aerospace solutions company Southeast Aerospace has been awarded the opportunity to provide project management and engineering support services for the U.S. Navy through a new contract vehicle, SeaPort-NxG. "Southeast Aerospace has provided aircraft modification and engineering support on numerous government contracts and Special Missions programs," stated Rob Reed, Director of Aircraft Modifications, "We're honored to have been selected to support the Navy over the next 10 years. Our in-house capabilities offer a unique subset of services to provide cost-effective solutions while maximizing efficiencies." The SeaPort NxG contract is an Indefinite-Delivery, Indefinite Quantity Multiple Award Contract with a value of US\$50 billion for individual task orders across 23 functional areas.

INFORMATION TECHNOLOGY

FLYdocs, the aviation data and records management solution provider, has signed a 5-year contract with **Swiss airlines, SWISS** and **Edelweiss Air**, who will use the FLYdocs® platform for the ongoing management of their maintenance and engineering records across their entire respective fleets of 90 and 15 aircraft. The FLYdocs® platform provides a centralized cloud-based digital replica of all aircraft technical records – right back to birth. That means, once uploaded into FLYdocs®, the millions of paper records, combined with electronic documents often distributed in different formats around most aviation organizations, are now instantly available in useable, industry standard formats to support business-critical operations, such as verifying airworthiness compliance, and aircraft sales and transitions. The Airlines, which are also users of MRO software AMOS, are set to be the first organizations to benefit from significant operational efficiencies and cost savings from FLYdocs®’ holistic approach to data management, as the platform has an exclusive integration with AMOS, and its advanced functionality is enriched further by live feeds from the ATA e-business specifications, Spec 2500.

OTHER NEWS

Vietnam’s startup airline **Bamboo Airways** has completed a long overdue maiden commercial flight which will now see competition in South-east Asia ramp up. The flight from Ho Chi Minh City to Hanoi Noi Bat International Airport carried 5 crew and 180 passengers after securing an Air Operator Certificate from the Civil Aviation Administration of Vietnam earlier this month. The airline’s launch flight has been twice postponed. Bamboo Airways is the fifth Vietnamese carrier to enter into service behind



As an authorized Pilatus center, Bournemouth Aviation Services uses Centrik to manage the maintenance and repair of Pilatus PC-12 aircraft for parent company, Jetfly. *Photo: Bournemouth Aviation Services*

Aircraft maintenance provider **Bournemouth Aviation Services** has transformed the efficiency of its operations thanks to its new management system, Centrik. Handling all maintenance and repair of Pilatus PC-12 aircraft for parent company **Jetfly**, Bournemouth Aviation Services turned to Centrik at the start of 2018 to streamline its operational procedures, adding a more structured, centralized way of tracking and evidencing all MRO processes. ICAO and EASA-compliant, Centrik provides Bournemouth Aviation Services with a way to replace its reliance on paper trails and various separate computer programs in favour of a fully-integrated solution capable of managing every operational element. Centrik’s cloud-based architecture puts a complete operational picture at the finger-tips of those who need it, from wherever they are. All information is stored on Centrik’s own, ultra-secure datacentres and is instantly accessible via any browser or tablet. The system is completely portable and can be used even when offline. Based on a modular system, Centrik can also provide full management of safety, risk, workflows and meetings, as well as compliance and training, which can build a comprehensive overview of all findings, providing visible heatmaps and KPIs that quickly and easily demonstrate how all regulatory compliance requirements are being met. Centrik will also monitor the training records of every staff member, providing full oversight of all training activity, highlighting when training currency may be about to expire and providing a way to effortlessly create a tailored course, all within the system.



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OTHER NEWS

Vietnam Airlines, Jetstar Pacific Airlines, Vietjet Aviation and Vietnam Air Services Co. It is owned by Vietnamese construction company **FLC** and is based at Quy Nhon's Phu Cat airport. The carrier is currently leasing two aircraft, but has orders with Boeing and Airbus for 20 787-9s and 23 A321neos, respectively. The carrier will provide domestic flights to tourist destinations where FLC has invested heavily, including Hanoi, Thanh Hoa, Vinh, Dong Hoi, Nha Trang, Qui Nhon, Ho Chi Minh City and Phu Quoc.

With President Trump's refusal to back down over funding for his US\$5.7bn U.S.-Mexico border wall resulting in a partial government shutdown, airplane manufacturers and commercial airlines are beginning to suffer from the knock-on effect of the enforced furlough being taken by FAA groups responsible for the oversight of aircraft approval and new routes. **Southwest Airlines** has confirmed its plans to launch its service to Hawaii are now on hold until such time as it receives the necessary authorization. According to a **Gulfstream Aerospace** spokesperson, certification of its new G600 corporate jet has been adversely affected along with other "facets of our business." The long-range business jet, which can fly nonstop from London to Los Angeles, is still expected to enter service this year. Currently American Airlines has two MAX8 jets standing idle in Tulsa while awaiting FAA approval for commercial operation, though the carrier did not feel this would impact on its current flight schedules. **United Airlines** is waiting FAA approval to enter one Boeing 737 MAX9 and one Airbus A319 into service. Talks between Trump and congressional Democrats are still at stalemate despite some of his fellow Republicans advising him to cut a deal as tension mounts across the country. Also according to Reuters, analysts do not expect a major impact on large airlines' capacity as a result of FAA certification delays, though management comments about the effect of a prolonged shutdown on travel and operations are awaited.

TAG Farnborough Airport has announced a record year for air traffic movements by reporting the highest-ever number of total annual movements in 2018, surpassing the previous record from 2007 by 8.2%. For the full year 2018, TAG Farnborough Airport saw a year-on-year increase in air traffic movements of 13.8%, with initial forecasts indicating this positive trend is set to continue in 2019. TAG Farnborough Airport serves customers from around the world and in 2018 noted substantial growth in air traffic movements to and from the U.S., with an increase of 22.5% year-on-year, as well as

As part of a cost-cutting program announced in December last year with the intention of reducing running costs by US\$234 million, Low-cost carrier **Norwegian** has announced it is to axe a number of routes and bases, starting April this year. Palma de Mallorca (PMI), Gran Canaria (LPA), Tenerife (TCL), Rome-Fiumicino (FCO), Stewart (SWF) and Providence (PVD). The last 18 months has seen Norwegian aggressively and rapidly penetrate a number of competitive markets, but this now appears to have come at a cost. According to Helga Bollmann Leknes, Norwegian Air's Chief Commercial Officer (CCO), the airline "has reached a point where it needs to make necessary adjustments to its route portfolio in order to improve the sustainability and financial performance in this very competitive environment."



Norwegian Airlines Photo: AirTeamImages

The summer of 2019 will see Norwegian also cut its Edinburgh (Scotland) base and terminate transatlantic flights from both Edinburgh and Belfast. Norwegian is planning to only axe its regional, intra-European flights operated by its fleet of Boeing 737-800 and MAX 8 aircraft. The airline clarified: "these aircraft are primarily used on European routes, but also some longer routes between Europe and the U.S. and Europe and the Middle East." Last week, Norwegian announced that it had logged its "highest ever passenger figures in a single year" in 2018, moving 37.34 million passengers—an increase of 13% on 2017 numbers, though the carrier added that 2018 "was characterized by major investments, strong competition, and a high oil price." In 2018 Norwegian took delivery of 25 new planes and launched up to 35 new routes, which were mainly between Europe and the U.S.



dnata City East, London Heathrow Photo: Delta Air Lines

Virgin Atlantic Cargo and Delta Cargo are to move into the new purpose-built **dnata City East**, London Heathrow's most state-of-the-art cargo facility. The move supports the airlines' growing cargo businesses, enhances their trans-Atlantic partnership for customers, and future-proofs the joint venture's position in the U.K. market by doubling the size of their cargo footprint at the airport. Virgin and Delta's cargo operations have been aligned under one roof in the U.K. since June 2016 and share cargo facilities at major U.S. gateways, notably Atlanta, Boston, Miami, New York, Orlando and Washington-Dulles with the objective to create an enhanced customer proposition on both sides of the Atlantic. The move to the new facility – scheduled for the second half of 2019 – will ultimately increase the size of Virgin and Delta's cargo operation at Heathrow to 335,000 ft², and see customers benefit from greater automation and faster truck and cargo handling times. The purpose-built facility will deliver the highest levels of service, security and automation. Inside the warehouse, investments in technology will enable staff using handheld devices to efficiently manage the flow of cargo, while the double-train ETV system will increase storage to 245 positions for pallets and containers. Customer trucks arriving at the facility will benefit from a new door management system, which enables drivers to complete paperwork at the gatehouse on arrival without leaving their vehicles and to then be immediately assigned to one of the facility's 18 cargo doors. The new location will also provide further benefits for customers choosing Virgin Atlantic Cargo and Delta Cargo services to move temperature-controlled healthcare and life science products as well as offering a dedicated perishables zone and an enlarged AVI centre for live animals.

OTHER NEWS

Europe, up by 15.5%. TAG Farnborough Airport currently handles more than 30,000 flights per annum, with approval to increase this number to 50,000 and is equipped to cater for a wide range of aircraft types including Boeing Business Jets and Airbus Corporate Jets. As the only dedicated business aviation airport in the UK, it is specifically designed to offer a one-stop shop for business aviation customers, and with 240,000 ft² of heated hangar facilities and 1.2m ft² of ramp space can accommodate both based and transient aircraft.

Alaska Air Group has released December operational results on a consolidated basis, for its mainline operations operated by subsidiaries **Alaska Airlines** and for its regional flying operated by subsidiary **Horizon Air Industries** and third-party regional carriers **SkyWest Airlines** and **Peninsula Airlines**. On a combined basis for all operations, **Air Group** reported a 0.4% decrease in traffic on a 0.3% decrease in capacity compared to December 2017. Load factor decreased 0.1 points to 82.2%.

As part of its growth strategy, **Finnair** will open a new route for the winter 2019/2020 season to Sapporo, Japan. Finnair will fly the new route from Dec 15 to March 27, with two weekly frequencies. Sapporo is well known as a great winter and skiing destination offering stunning landscapes and fantastic winter-themed activities in a traditional Japanese setting. Sapporo will be Finnair's fifth destination in Japan, in addition to Tokyo Narita, Osaka, Nagoya and Fukuoka. Finnair will also be opening a new weekly flight to Punta Cana in the Dominican Republic. The flight to Punta Cana will be operated with an Airbus A350 aircraft once a week between December 13 and March 27.



Frankfurt Airport (FRA) served more than 69.5 million passengers in 2018, thus posting a new record high in the airport's history. Compared to 2017, traffic at Germany's largest airport grew by some 5 million passengers or 7.8%. This strong growth resulted from the launch of more routes to new destinations from FRA and from airlines increasing flight frequencies. In full-year 2018, aircraft movements at FRA rose

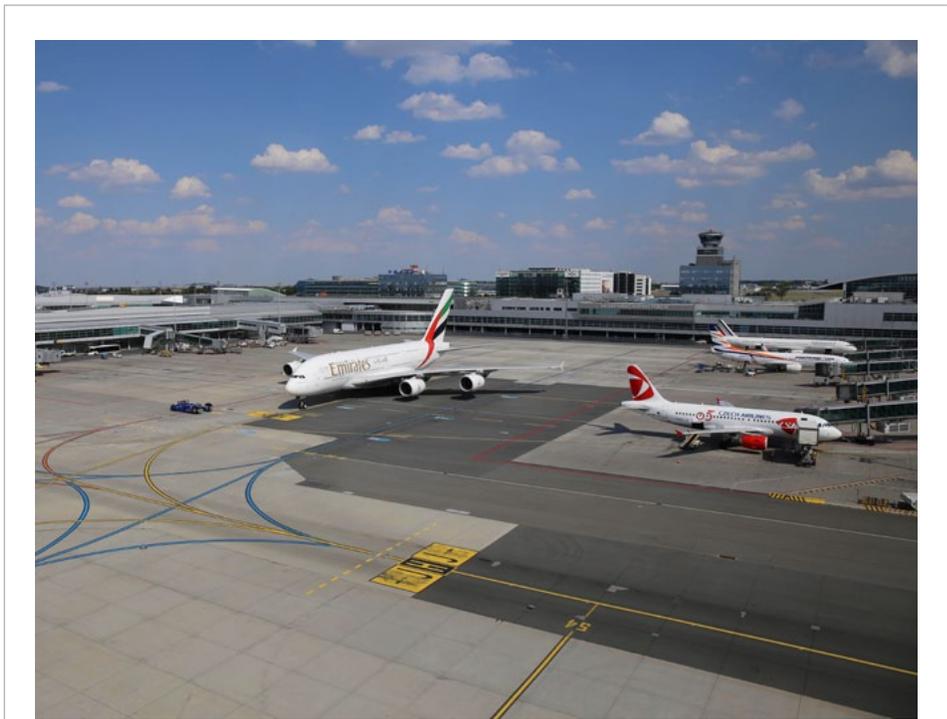


Photo: Prague Airport

Václav Havel Airport Prague has continued to grow without interruption since 2013. In 2018, as per the latest operating results, Prague Airport handled a total of 16,797,006 passengers, which represents a 9% year-on-year growth. Routes to Great Britain were the busiest last year with the greatest number of passengers traditionally heading to London. Barcelona recorded the highest year-on-year increase in the number of handled passengers on the route. Long-haul routes also significantly enhanced their performance, with nearly quarter of a million more passengers compared to the previous year. Nearly 16.8 million passengers passed through the gates of Václav Havel Airport Prague in 2018 and a total of 155,530 take-offs and landings were performed. The positive trend has thus continued, with 9% more handled passengers and almost 5% more performed movements, a slightly slower growth rate than the former year.

by 7.7% to 512,115 takeoffs and landings in 2018. Accumulated maximum takeoff weights (MTOWs) also increased by 5.1% to some 31.6 million metric tons. Cargo throughput (air-freight + airmail) posted a slight 0.7% decline to about 2.2 million metric tons, reflecting growing uncertainties in global trade, particularly during the second half of the year. Airports in Fraport's international portfolio also reported noticeable growth in 2018. CEO Schulte commented: "In addition to Frankfurt, most of our Group airports worldwide also achieved new passenger records last year. We continue to invest in the airports of our international portfolio, thus ensuring their long-term development. To create additional capacity, we are currently carrying out major expansion projects at our Group airports, particularly in Greece, Brazil and Peru."

INDUSTRY PEOPLE



Kevin Brickner

- American Airlines announced that **Kevin Brickner**, who currently serves as Vice President of Safety and Operations Integration as well as the airline's certificated Director of Safety, has been promoted to

Senior Vice President of Technical Operations (Tech Ops). He takes over the role from **David Seymour**, who was named Senior Vice President of Integrated Operations in 2016. Brickner will be responsible for overseeing line and base maintenance; engineering, planning and production

INDUSTRY PEOPLE

support for airframes, engines and components; and aircraft supply chain operations, among many other responsibilities. American has promoted **Capt. Ron Thomas** to Vice President of Safety to assume Brickner's previous position.



Tommi Krell

- West Star Aviation has named **Tommi Krell** Director of Corporate Communications. Krell will be responsible for managing internal employee communications channels, as well as assisting Human Resources with enhancing and expanding corporate recruiting strategies. Krell has 5+ years of aviation marketing and communications experience, previously holding various marketing positions with Jet Aviation.

- Bombardier Business Aircraft has appointed **Peter Bromby** as Vice President, Worldwide Sales, Learjet Aircraft. Bromby will assume overall responsibility for sales with a dedicated U.S.-based sales team and will apply his vast experience and insight to driving sales of this Bombardier brand. He will retain his current responsibilities as Vice President, Worldwide Pre-owned Aircraft Sales. A seasoned professional with more than 20 years of experience in aviation sales, Bromby has held a number of key roles in his career. He joined Bombardier in 2015 as Director, Sales, Learjet Aircraft.

- Panasonic Avionics Corporation (Panasonic Avionics) has appointed **Kimberly Chainey** as its General Counsel. Chainey is a legal leader and corporate generalist with over 15 years of experience advising senior executives of Fortune 500 companies, venture businesses and government entities. As chief legal officer and a member of the executive team, Chainey will advise Panasonic Avionics' leadership on the company's strategic direction. Her responsibilities will include overseeing legal issues, promoting a disciplined compliance culture and analyzing legislation and its effect on the company. She will also manage commercial contracts and lead complex projects and transactions. Chainey will report directly to **Jessica Hodkinson**, the General Counsel of Panasonic Corporation of North America (PNA) with a dotted-line reporting structure

Recommended Events



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February 19-20, 2019 – Palma de Majorca, Spain

Operating Lease & Aviation Finance Seminar
March 19-21, 2019 – Gibson Hotel, Dublin, Ireland

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to Panasonic Avionics' Chief Executive Officer, **Hideo Nakano**.

- Woodward has reported that **Robert F. Weber, Jr.**, Vice Chairman and Chief Financial Officer, has announced his intention to retire effective January 3, 2020, after more than 14 years as the CFO of the company. As part of the company's succession planning for the Chief Financial Officer role, **Jonathan "Jack" W. Thayer**, has joined the company as Vice Chairman, Corporate Operations, reporting to **Mr. Gendron**. Thayer will also be appointed to Chief Financial Officer on October 1, 2019, the beginning of Woodward's fiscal year 2020. Weber will then transition into a senior consultant role supporting Gendron and the senior leadership team through his January 2020 retirement date.

- C&L Aerospace, a C&L Aviation Group company, has released that **Isham Salim** has joined C&L Aerospace in the new position of Regional Sales Manager, Asia. Salim will lead sales and marketing activities in the commercial and regional airline segments for Asia. Salim has more than 20 years of experience in the Asian airline market, most recently as managing director of Avia Singapore Aircraft Parts (A.S.A.P.), an aircraft parts supplier. Prior to A.S.A.P. Salim was Regional Sales Manager for Werner Aero Services Asia Pacific and Marketing Manager for Aerospace Distributors Inc.



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THE AIRCRAFT AND ENGINE MARKETPLACE

Commercial Jet Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
A320-200	ORIX Aviation	V2527-A5	3807	2007	Q1/2020	Lease	Matthew Gialopsos	Matthew.Gialopsos@orix.ie	+353 83 167 2233
A320-200	ORIX Aviation	CFM56-5B4/P	2620	2005	Q1/2020	Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A320-200	ORIX Aviation	V2527-A5	4603	2011	Q1/2020	Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A320-200	ORIX Aviation	CFM56-5B4/3	5213	2012	Q2/2020	Lease	Matthew Gialopsos	Matthew.Gialopsos@orix.ie	+353 83 167 2233
A321-200	Castlelake	V2533-A5	3274	2007	Q4/2019	Lease	Michael Hackett	Michael.hackett@castlelake.com	+44 20 7190 6120
A321-231	Aircraft Recycling Intern.	V2533-A5	3241	2007	Q4/2019	Lease	Gabrielle Du	gabrielle.du@ariaero.com	+852 37537347
A321-231	Aircraft Recycling Intern.	V2533-A5	3251	2007	Q4/2019	Lease	Gabrielle Du	gabrielle.du@ariaero.com	+852 37537347
A330-200	Castlelake	CF6-80E1A4	473	2002	Q4/2019	Lease	Michael Hackett	Michael.hackett@castlelake.com	+44 20 7190 6120
A330-200	Castlelake	CF6-80E1A4	489	2003	Q4/2020	Lease	Michael Hackett	Michael.hackett@castlelake.com	+44 20 7190 6120
B737-5H6	Bristol Associates	CFM56-3C1	26445	1992	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B737-8AS	GA Telesis	CFM56-7B24	33813	2004	Now	Lease	Mauro Francazi	mfrancazi@gatelesis.com	+44 7387 418679
B737-8AS	GA Telesis	CFM56-7B24	33814	2004	Now	Lease	Kevin Ford	kford@gatelesis.com	+64 21 747 109
B737-800	ORIX Aviation	CFM56-7B24E	40317	2012	Q4/2019	Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
B737-800	ORIX Aviation	CFM56-7B24	33641	2007	Q2/2020	Lease	Matthew Gialopsos	Matthew.Gialopsos@orix.ie	+353 83 167 2233
B737-800	Willis Lease				soon	Sale / Lease	Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775
B747-400	Bristol Associates		28812	1999	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B747-400	Bristol Associates		30023	2000	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B757-223 (7x)	Jetran	RB211-535E4B	various	91/92	Now	Lease	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
(2) B787-800					soon	Sale / Lease	Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775

Regional Jet / Turboprop Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
ATR 72-202	ACI Aviation Consulting	PW124B	455	1995	Now	Sale / Lease	Quentin Brasie	Qbrasie@aciaviation.com	+1 540-428-4388
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	10029	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	1700123		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700119		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700124		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700142		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700152		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700155		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-145LR	Regional One	AE3007A1	145304	2001	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
ERJ-145LR	Regional One	AE3007A1	145331	2000	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
ERJ-145LR	Regional One	AE3007A1	145768	2003	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
SF340B	C&L Aviation Group	CT7-9B	194	1990	Now	Sale / Lease	Fred Dibble	fred.d@cla.aero	+1 207-217-6128
SF340B+	C&L Aviation Group	CT7-9B	425	1997	Now	Sale	Donald Kamenz	donald.k@cla.aero	+1 207-217-6259
Saab 340B+	C&L Aviation Group	CT7-9B	368	1994	Now	Sale	Donald Kamenz	donald.k@cla.aero	+1 207-217-6259
SF340A Cargo	C&L Aviation Group	CT7-5A	046	1986	Now	Sale	Fred Dibble	fred.d@cla.aero	+1 207-217-6128

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AE3007 Engines					
(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					
CF34-10E5A1 NEW	Now - Lease	DASI	Ed Blyskal	ed.blyskal@dasi.com	+1 305-525-7308
CF34-8E5	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
CF34-10E	Now - Lease				
CF34-8C	Now - Lease				
CF34-3B1	Now - Lease				
CF34-3A	Now - Sale / Lease				
(2) CF34-8C5B1	Now - Sale / Lease	Regional One	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
(1) CF34-3B1	Now - Sale / Lease				
(2) CF34-10E7	Now - Sale/Lease/Exch.	Werner Aero	Cliff Topham	ctopham@werner aero.com	+1-703-402-7430
(multiple) CF34-8E5	Now - Sale / Lease	AerFin	Oliver James	Oliver.James@aerfin.com	+44 (0) 7930463293
(1) CF34-8E5A1	Now - Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204x202
(2) CF34-8C5B1	Feb 19 - Lease				
(1) CF34-10E6	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
CF34-8E(s)	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1 (513) 782-4272
CF& Engines					
(2) CF6-80C2A2	Now - Lease	Castlelake	Stuart MacGregor	stuart.macgregor@castlelake.com	+44 2071906138
CFM Engines					
(1) CFM56-7B26/3	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CFM56-7B26	Now - Lease				
(1) CFM56-7B26/E	Now - Lease				
(1) CFM56-7B26	Soon - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
(1) CFM56-3B1	Soon - Sale/Lease/Exch.		David Desaulniers	leasing@willislease.com	+1 415 516 4837
(1) CFM56-3C1	Feb 19 - Sale	LCH Trading	Carlos Miranda	cmiranda@lchaerospace.com	+1 954-644-9617



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Commerical Engines (cont.)

(2) CFM56-5A	Now - Sale	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
(1) CFM56-5B	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@wernerairo.com	+1-703-402-7430
(1) CFM56-7B	Now - Sale/Lease/Exch.				
(1) CFM56-5B3/P	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) CFM56-7B26/27	Now - Sale / Lease				
CT7 Engines	Sale / Lease	Company	Contact	Email	Phone
CT7-9B	Sale	C&L Aviation Group	Martin Cooper	martin.c@cla.aero	+1 207-217-6106
JT8D and JT9D Engines	Sale / Lease	Company	Contact	Email	Phone
(1) JT8D-217C	Now - Sale	AZURE RESOURCES INC.	Jeff Young	jeff@azureres.com	1-954-249-7935
(2) JT8D-219	Now - Sale	LCH Trading	Carlos Miranda	cmiranda@lchaerospace.com	+1 954-644-9617
GENx Engines	Sale / Lease	Company	Contact	Email	Phone
(1) GENx	Soon - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
LEAP Engines	Sale / Lease	Company	Contact	Email	Phone
(1) LEAP-1A33	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
(2) LEAP-1B28	Soon - Lease				
PW Small Engines	Sale / Lease	Company	Contact	Email	Phone
(1) PW121	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(2) PW123	Now - Sale / Lease				
(1) PW124B	Now - Sale / Lease				
(1) PW127E/F/M	Now - Sale / Lease				
(1) PW150A	Now - Sale / Lease				
(1) PW121	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	leasing@willislease.com	+1 415 516 4837
(1) PW124B	Now - Sale/Lease/Exch.				
(2) PW123	Now - Sale/Lease/Exch.				
(1) PW127	Now - Sale/Lease/Exch.				
(1) PW150A	Now - Sale/Lease/Exch.				
(1) 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				
PW127	Sale	C&L Aviation Group	Martin Cooper	martin.c@cla.aero	+1 207-217-6106
(1) PW124B	Now - Sale/Lease/Exch.	Logix.Aero	Jean-Christian Morin	jcmorin@logix.aero	+33.6.4782.4262
(2) PW127E/F			Remi Kryz	rkryz@logix.aero	+33.6.2079.1039
(4) PW127M					
(1) PW120 / PW121	Now - Sale / Lease	Royal Aero	Calum MacLeod	calum@royalaero.com	+49 8025 993610

THE AIRCRAFT AND ENGINE MARKETPLACE

Commerical Engines (cont.)

(1) PW4056-3	Now - Sale/Lease	Jet Midwest	Kevin Lee	engines@jetmidwest.com	+1-310-652-0296
RB211 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) RB211-535	Now - Sale / Lease	Jet Midwest	Dave Williams	dave.williams@jetmidwest.com	+1-817-791-4930
Trent Engines	Sale / Lease	Company	Contact	Email	Phone
(2) Trent 892	Now - Sale / Lease	TrueAero, LLC.	Matt Parker	mparker@trueaero.com	+1 469-607-6110
(4) Trent 556	Now - Sale / Lease				
(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-A5S2 Zero-TSN engine with RGI	Now - Lease	TrueAero, LLC.	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
(1) V2533-A5	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@werner aero.com	+1-703-402-7430

Aircraft and Engine Parts, Components and Misc. Equipment

Description		Company	Contact	Email	Phone
(1) A320-200 Landing Gear	Now - Sale/Lease/Exch.	TrueAero, LLC	Matt Parker	mparker@trueaero.com	+1 469-607-6110
A340-300/A330 Landing Gear	Now - Sale/Lease/Exch.				
A340-600 Landing Gear	Now - Sale/Lease/Exch.				
B777-200 Landing Gear	Now - Sale/Lease/Exch.				
Trent5562 Inlet Cowls & Fan Cowls	Now - Sale/Lease/Exch.				
Trent892 Inlet Cowls and Fan Cowls	Now - Sale/Lease/Exch.				
V2500-A5 Inlet Cowls & Fan Cowls	Now - Sale/Lease/Exch.				
CF6-80E Trust Reversers, Inlets & Fan Cowls	Now - Sale/Lease/Exch.				
(1) GTCP331-500B	Now - Sale/Lease/Exch.				
767-300ER 413K, 737-300 LANDING GEAR	Now - Sale/Lease/Exch.	AZURE RESOURCES INC.	Jeff Young	jeff@azures.com	1-954-249-7935
GTCP36-300A, GTCP85-98DHF APU	Now - Sale/Lease/Exch.				
A320 Nose Landing Gear	Now - Sale/Lease/Exch.				
CFM56-3 LPT MODULE, REPAIRED	Now - Sale/Lease/Exch.				
CFM56-3 ENGINE STAND	Now - Lease				
(1) GTCP36-150RJ, (2) GTCP36-100M,	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) RE220RJ, (1) PW126 RGB, (1) PW901A					
(1) APS1000-C12, (1) APS1000-C3					
GTCP131-9A (2), GTCP131-9B(2)	Now - Lease	REVIMA APU	Olivier Hy	olivier.hy@revima-apu.com	+33(0)235563515
GTCP331-200, GTCP331-250	Now - Lease				
APS500C14(3), APS1000C12(2), APS2000	Now - Lease				
APS2300, APS3200(2), APS5000(2)	Now - Lease				
PW901A(4), PW901C(2)	Now - Sale / Lease				
TSCP700-4E	Now - Sale				
(1) PW901A APU	Now - Sale	Royal Aero	Gary MacLeod	gary@royalaero.com	+44 (0)141 389 3014
(multiple) APS2300, (1) GTCP331-350C	Now - Sale / Lease	AirFin	Nick Filce	Nick.Filce@aerfin.com	+44 7770 618 791
(1) GTCP36-300A, (1) GTCP131-9A					
GTCP131-9A, GTCP131-9B, GTCP331-350C	Now - Sale/Lease/Exch.	Logix.Aero	Jean-Christian Morin	jcmorin@logix.aero	+33.6.4782.4262
GTCP331-500B, GTCP331-200/250,			Rich Lewsley	rlewsley@logix.aero	+44.79.0021.8657
APS3200, APS2300, GTCP85-129H					
APU GTCP 331-500	Soon - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
Engine stands now available	Now - Lease				
ENGINE STANDS: Trent 800, PW4000 112"/V2500 / 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@Werner aero.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@werner aero.com	+1 201-661-6804
767-300 Winglets, LH-RH P/N 767-0010-5, -6, -7 & -8, SV- Now Sale		Reliance Aircraft	Terry Hix	thix@relianceaircraft.com	+1 512-439-6988
(2) PW901A, (1) PW901C(1), PW125B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368