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WORLD NEWS

Finnair transforms its booking experience with Amadeus

Finnair is partnering with Amadeus to make travel bookings easier and more flexible for customers across all of its online platforms. The Finnair website and the Finnair mobile app account for one quarter of the company's sales, forming the single most important sales channel for the airline. "We want to make the shopping experience more intuitive and enjoyable for our customers," says Jaron Millner, Vice President of Direct Business at Finnair.

SAS to boost summer 2018 services

SAS continues to expand its offer to and from Scandinavia and launches 27 new non-stop routes to be served from several of its hubs. The seasonal summer 2018 routes also includes five new destinations on SAS's route map; Verona, Sarajevo, Genoa, Toulon and Beirut. In addition to this, SAS is giving its customers more access to popular destinations with expanded summer service to Portugal, Spain, Croatia and Italy.

Ryanair delays new bag policy

European low cost carrier Ryanair confirmed that it will delay its new cabin bag policy until 15th January 2018 to allow customers more time to adjust to the changes, particularly during the busy Christmas period. Ryanair's new bags policy includes cuts to checked bag fees (from €35 to €25) to encourage more customers to check in bags and reduce the volume of carry-on bags.



Air travel will seek the use of new technologies.

Photo: Heathrow Airport

IATA and ACI collaborate

With focus on new emerging technologies

The International Air Transport Association (IATA) in collaboration with Airports Council International (ACI) have launched the New Experience in Travel and Technologies (NEXTT) initiative.

In light of the projected doubling of air travel demand by 2036, new on-ground concepts are, and increasingly will be re-

quired to optimise the use of emerging technologies, processes and design developments. NEXTT aims to help deliver this future by developing a common vision to enhance the on-ground transport experience, guide industry investments and help governments improve the regulatory framework.

"We will not be able to handle the growth or evolving customer expectations with our current processes, installations and ways of doing business. And accommo-

questions about what really needs to happen at the airport and what can be done off-site," said Alexandre de Juniac, IATA's Director General and CEO.

"NEXTT will seek to provide a seamless journey by exploring increased off-site processing options."

Angela Gittens, Director General, ACI World

dating growth with ever bigger airports will be increasingly difficult if not impossible. NEXTT will address these challenges. Working with our airport partners we will explore the important changes in technology and processes to enhance the customer experience. And we will ask some fundamental

questions about what really needs to happen at the airport and what can be done off-site," said Alexandre de Juniac, IATA's Director General and CEO.

"NEXTT will seek to provide a seamless journey by exploring increased off-site processing options; reducing or even eliminating queues; more efficiently using space and resources through enhanced deployments of artificial intelligence and robotics; and vastly improving data sharing between stakeholders. The goal of NEXTT is finding potential ways to integrate systems and improve operations in the most secure, effective manner possible."

Continued on page 3

Commercial/Military Aircraft Part Sales
Actively Seeking Aircraft for Teardown

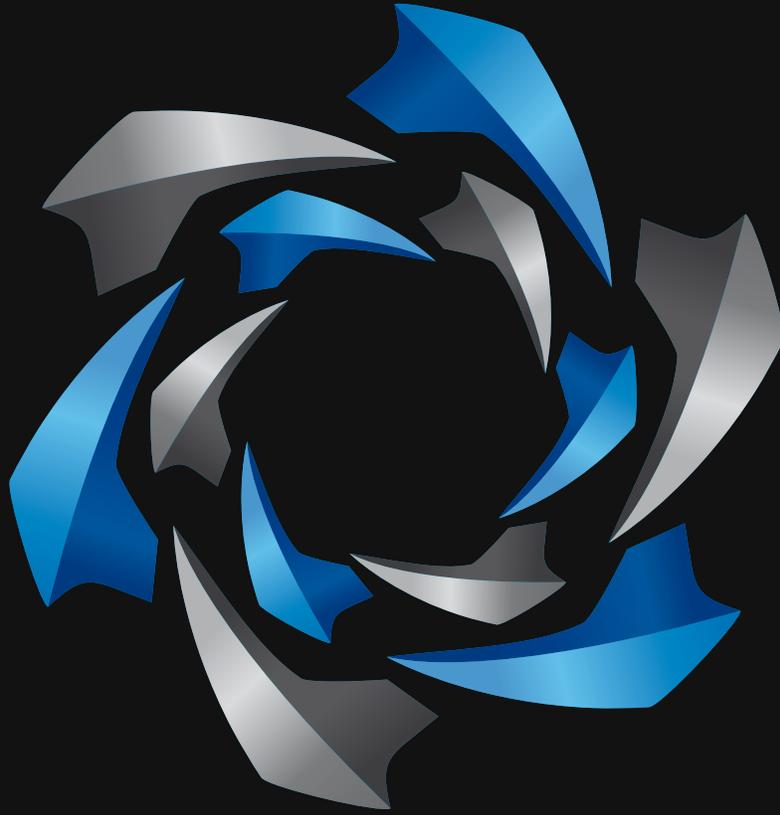


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tive and sustainable manner for the benefit of passengers and the industry," said Angela Gittens, Director General, ACI World.

Specifically, NEXTT will investigate how passengers, cargo, baggage and aircraft move through the complete travel journey. IATA

and ACI will work with their respective members, and other associations, service providers, engineering firms and manufacturers.

AIRCRAFT & ENGINE NEWS

BOC Aviation delivers Boeing 737-800 to Pobeda Airlines

BOC Aviation has delivered the first of eight Boeing 737-800 aircraft to Russian low-cost airline Pobeda Airlines, a wholly owned subsidiary of Aeroflot. This aircraft is from the Company's existing order book.

China Southern Airlines orders 8 Boeing B777-300ER and 30 B737-8 aircraft

China Southern Airlines' board of directors have authorized the order of 8 Boeing B777-300ER and 30 B737-8 aircraft. The Boeing aircraft will be delivered in stages to the Company during the period commencing 2019, of which 5 B777-300ER and 12 B737-8 aircraft will be delivered to the Company in 2019 and 3 B777-300ER and 18 B737-8 aircraft will be delivered to the Company in 2020.

Air Mauritius takes delivery of first A350 XWB

Air Mauritius has taken delivery of its first Airbus A350-900 aircraft, opening a new chapter for the Indian Ocean carrier. The aircraft, leased from AerCap, was delivered during a ceremony on October 20. The Mauritian based airline has chosen a two-class layout with a total of 326 seats comprising 28 in Business Class and 298 in Economy Class. The A350-900 is equipped with Air Mauritius' latest cabin products including new seats, an all-new inflight entertainment system and inflight

connectivity. This A350-900 is the first of six to be delivered to Air Mauritius. Four will be purchased directly from Airbus and two leased from AerCap. The carrier will deploy the aircraft on its expanding route network connecting Mauritius with Asia, Africa and Europe.

Citilink takes delivery of 50th A320 Family aircraft



Citilink takes delivery of its 50th A320 Family aircraft at Airbus headquarters in Toulouse, France

Photo: Airbus

Citilink, the low-cost unit of Garuda Indonesia, has taken delivery of its 50th A320 Family aircraft at Airbus headquarters in Toulouse, France. The aircraft, an A320neo, can seat up to 180 passengers in a single class layout.

The aircraft has been delivered with a special livery to commemorate the milestone, and it joins another 45 A320neos and four A320neos that are already in service with the airline. Citilink has selected CFM Leap-1A engines to power its A320neo fleet, and has 30 more of the aircraft on order for future delivery. It is using its growing fleet of Airbus single-aisle aircraft to expand its domestic and regional network.

Textron Aviation inks order for 11 aircraft

Textron Aviation has secured a fleet order from Babcock Scandinavian Air Ambulance for 11 aircraft, including the first medevac-configured Cessna Citation Latitude midsize jet and 10 Beechcraft King Air 250 turboprops. The aircraft

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will support Babcock's contract with Air Ambulance Services of Norway to provide communities across Norway with vital air ambulance support. Babcock's fleet of King Air 250 turboprops will feature CAT II capability, enabling operations in reduced visibility. In addition, the aircraft will feature steep approach landing capability and are equipped to operate in polar regions. Completing the fleet, the Latitude will also include a modified door to accommodate the loading and unloading of wide medical equipment. Deliveries for the 11 aircraft are scheduled throughout the next 18 months and are expected to conclude in 2019.

Avolon delivers one Airbus A320-200Neo to Garuda

Avolon, the international aircraft leasing company, has delivered one additional Airbus A320-200Neo aircraft to Garuda (Citilink). This is the 17th Avolon aircraft on lease to Garuda.

AerCap delivers fourth Boeing 737-800 aircraft to US-Bangla Airlines

AerCap has delivered the fourth 737-800 to US-Bangla Airlines, the largest private airline based in Bangladesh, serving the domestic and international markets. The Boeing 737-800, powered by CFM engines, was manufactured in 2007. US-Bangla Airlines is part of the US-Bangla Group. It owns and operates 3 Q400s (soon to grow to 5) and has leased 4 Boeing 737-800s operating on 7 domestic destinations and 7 international destinations out of its base in Dhaka – the capital city of Bangladesh (including Doha which started on October 1, 2017).

MRO & PRODUCTION NEWS

AAR expands ATR product line by acquiring Island Air inventory, plus tooling

AAR, a leading integrator of aviation supply chain solutions, has expanded its ATR parts offerings by purchasing the entire ATR inventory, plus tooling, of Honolulu-based Island Air, which recently phased out its ATR operations. The acquisition deepens AAR's commitment to providing global, customer-facing solutions to the ATR market. The inventory will be integrated into AAR's existing ATR supply chain and strategically positioned at the Company's distribution hubs in the United States, Singapore and Hannover, Germany. This is the first ATR inventory package AAR has purchased since entering the ATR market earlier this year when it bought

First A320neo assembled in Tianjin delivered to AirAsia



AirAsia takes delivery of first A320neo assembled in Tianjin

Photo: Airbus

AirAsia has taken delivery of the first A320neo assembled at the Airbus Final Assembly Line Asia (FALA) at a dedicated ceremony in Tianjin, China. The aircraft, powered by CFM LEAP-1A engines, comfortably seats 186 passengers and is equipped with the innovative Space-Flex cabin. AirAsia is the largest airline customer of the A320 Family with orders for 578 aircraft. These include 404 A320neo Family aircraft.

ATR inventory from ASL Aviation subsidiary AC-LAS Global as part of a PBH agreement with ASL. AAR has a dedicated ATR product line team based in the UK to serve ATR customer parts requirements globally.

on-wing support. These facilities can also perform lighter MRO worksopes. The new third-party shops will provide additional LEAP-1A and -1B capacity as they come online over the next couple of years.

CFM signs third-party LEAP aftermarket support agreements

CFM International has signed agreements with Lufthansa Technik and AFI KLM E&M to provide maintenance and overhaul support for its advanced LEAP engine product line. CFM has longstanding relationships with both companies on the CFM56 family, and has granted licenses for them to develop MRO services offerings to provide both on-wing and on-site support, as well as engine overhaul for LEAP. CFM has three of its own shops with LEAP capability to support the engine's entry into commercial service: Lafayette, Indiana in the U.S., which can support both the LEAP-1A and LEAP-1B; Brussels, Belgium, which has capability for the LEAP-1A; and Saint-Quentin-en-Yvelines, France, which will support the LEAP-1B. The company has also established worldwide On-Site Support (OSS) capabilities to provide customers with extended

Boeing, Mitsubishi Heavy Industries reach agreement on cost reduction for 787 production

Boeing and Mitsubishi Heavy Industries (MHI) have reached an agreement to strengthen collaboration in ways that will enhance both companies' competitiveness. The agreement includes efforts to reduce costs in MHI production of wings for the 787 Dreamliner and joint studies of advanced aerotechnology for future-generation commercial aircraft. MHI manufactures 787 composite wings at its factory in Nagoya. The agreement aims to enable sales by pursuing increased efficiency in MHI's production system and its supply chain through lean production methods, automation and other activities. MHI's work statement for Boeing Commercial Airplanes also includes fuselage sections for the 767, 777 and 777X programs. In total, about 150 Japanese

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companies are suppliers to Boeing across its commercial and defense product lines. Boeing procures approximately US\$5bn worth of goods and services from Japan every year, while Boeing-related work supports tens of thousands of highly skilled aerospace jobs in the United States and Japan.

HAECO Xiamen and Comac sign trainings co-operation framework agreement

HAECO Xiamen and Commercial Aircraft Corporation of China (COMAC) have signed a training co-operation framework agreement. Under the agreement, HAECO Xiamen Technical Training Centre, a CCAR-147, HKAR-147 and EASA Part-147 approved aircraft maintenance training organization, will become a key training base for the continuous development of COMAC's personnel. HAECO Xiamen will utilize its extensive experience and resources in training within the aviation industry to deliver a series of aviation-focused theoretical and practical training courses to COMAC. Starting from the basic skills in maintaining aircraft components, HAECO Xiamen and COMAC are committed to working together in progressively nurturing well-rounded aircraft engineering professionals who will serve the Chinese aviation industry's growing needs for aircraft design, manufacturing and customer service personnel.

ST Aerospace secures new contracts worth about \$530m in third-quarter 2017

Singapore Technologies Aerospace (ST Aerospace) secured new contracts worth about \$530m in the third quarter (3Q) of 2017 for services ranging from heavy airframe and engine maintenance, component repair and overhaul to cabin retrofit. The heavy airframe maintenance contracts include long-term agreements to support a range of aircraft platforms from MD-11, Boeing 777 and Boeing 757 to A300 for freight operators. Other MRO contracts clinched in 3Q2017 include agreements to service CFM56-7B engines for European and Asia airlines, as well as agreements to overhaul the landing gears of commercial and military aircraft.

ST Aerospace further grew its cabin retrofit business and secured a launch customer for its aircraft seats when it won a contract from an aircraft leasing company to refresh and reconfigure the cabin interior of two A320 aircraft. ST Aerospace will be installing its in-house designed seat, which is tailored specifically for narrow-body aircraft and medium-haul flights,

Israel Aerospace Industries obtains STC approval for freighter conversion of 737-700BDSF



737-700 during conversion at IAI

Photo: IAI

Israel Aerospace Industries (IAI) has received a new Supplemental Type Certificate (STC) from the FAA (Federal Aviation Administration) for cargo conversion of the 737-700BDSF. IAI has recently completed its first-ever conversion of a prototype aircraft from passenger-to-full-freighter configuration at its facility, including the installation of a wide cargo door. The aircraft was delivered to Alaska Airline as the first of a three-aircraft order. The work was performed at IAI's Bedek Aviation Group facilities in Israel.

when refreshing the cabin interior of the two aircraft. The aerospace sector redelivered a total of 1,134 aircraft for airframe maintenance and modification work in 3Q2017. Additionally, a total of 11,509 components, 65 landing gears and 34 engines were processed, while 2,565 engine washes were conducted. The sector continued to expand its capabilities when its airframe MRO station in Guangzhou, China, received approval of the Civil Aviation Authority of Malaysia to provide maintenance service for Boeing 767, while its VIP completion and refurbishment business, AERIA Luxury Interiors, registered successfully for an independent repair certification with the Federal Aviation Administration, allowing the company to streamline its completion process, and expedite its maintenance, refurbishment and completion contracts in the most efficient way possible.

AJW Group expands contract with Air Transat to cover A330 fleet growth

AJW Group has expanded its power-by-the-hour (PBH) contract with Canadian carrier Air

Transat. AJW Group originally signed a long-term PBH contract with Air Transat in 2013 to provide support for the airline's Airbus A330 aircraft, and the expanded contract will now support their increased Airbus A330 fleet, which has grown by 33% since the start of the contract.

Georgian Airways now supported by Spairliners

Georgian Airways, the Tbilisi-based airline, and Spairliners, one of the market leaders in Aircraft Component Care based in Hamburg, Germany, have signed a multi-year contract for all-embracing component maintenance services of two Embraer E190 aircraft. The contract comprises pool access and component repair services for Georgian Airways. Spairliners supports Georgian Airways with spare parts from its large-scaled component pool in Munich and Paris. Hereby, smooth flight operations will be ensured in an efficient and timely manner. The agreed component repair services are carried out by Spairliners' parent companies Lufthan-

MRO & PRODUCTION NEWS

sa Technik AG and Air France Industries KLM Engineering & Maintenance.

Monarch Aircraft Engineering wins China Airlines line maintenance contract

Monarch Aircraft Engineering (MAEL) has signed a line maintenance agreement with China Airlines. The flag carrier is a new customer for MAEL who will carry out line maintenance work when China Airlines begins its London Gatwick service in December 2017. With four flights a week in the winter, followed by five flights or more next summer, the line maintenance work will be carried out on the airlines Airbus A350 aircraft.

Singapore Airlines signs US\$1.7bn GE9X services agreement

Singapore Airlines has signed a 12-year TrueChoice™ flight hour agreement with GE Aviation for the maintenance, repair and overhaul of its 45 GE9X engines that will power its Boeing 777-9 aircraft. The services agreement is valued at more than US\$1.7bn. This announcement follows Singapore Airlines' February 2017 notice of intent to order 20 GE9X-powered Boeing 777-9 aircraft and five spare engines. The engine order is valued at more than US\$2bn list price.

PEMCO hosts inaugural door door-cutting ceremony for B737-700 FlexCombi™ conversion aircraft

PEMCO World Air Services (PEMCO) has held a ceremony to mark the cutting of a cargo-door opening in a passenger airframe for the conversion of its first Boeing Next Generation 737-700 Passenger-to-FlexCombi™ aircraft. The event is a major milestone for Bahrain-based Chisholm Enterprises, an internationally recognized provider of tailored aviation and business solutions in the Middle East, which is the customer for this aircraft. Its subsidiary Texel Air, a non-scheduled cargo airline, will operate the B737-700 FlexCombi™ from Bahrain International Airport. The FlexCombi™ design provides separate main-deck compartments for passengers and cargo. PEMCO expects to receive U.S. Federal Aviation Administration supplemental type certification (STC) approval for its B737-700 conversion programs by the third quarter of 2018. After the initial FAA issuance, PEMCO plans to certify the programs with the European Aviation Safety Agency and the Civil Aviation Administration of China shortly there-

Czech Airlines Technics and GA Telesis to launch joint service for ATR turboprop aircraft



GA Telesis and Czech Technics launch joint service for ATR turboprop aircraft Photo: Czech Airlines Technic

Czech Airlines Technics (CSAT), a daughter company of the Czech Aeroholding Group providing aircraft maintenance services, has signed a Memorandum of Understanding with GA Telesis (GAT), a US-based key player within the aviation and aerospace industries, at the MRO Europe in London. Based on the agreement, the two companies are to form an integrated supply chain partnership and offer customers a complex service for ATR turboprop aircraft. The service will also cover the support of rotating aircraft parts including repairs, spare parts inventory and logistics. The new joint product will be provided based on a "Power by Hour" program, charging air carriers a fee according to flight hours. Under the program, CSAT workers will be in charge of performing repairs of rotating aircraft parts, such as propeller blades, for GAT clients using either its own capacity or via external partners. The partner company will be in charge of the spare parts inventory, logistics and storage. The companies will join efforts in terms of business support and search for new customers. The creation of a special store, a pool, of components for rotating aircraft parts into which CSAT is to deposit the spare parts it currently owns and cannot sufficiently use is also a part of the agreement between the parties. GAT will subsequently supply the pool with additional spare parts and components to ensure it covers all requests by future customers. GAT has created a special tool called iGEAR (Intelligent Global Engine & Airframe Replenishment) to facilitate access to the pool. The partnership has been entered into for a five-year period with the option of extension thereafter. Final terms and conditions of co-operation will be specified by the end of the year.

after. PEMCO intends to offer three configurations of the PEMCO B737-700 FlexCombi™: a 24-passenger cabin plus a 2,640-cubic-foot cargo hold for up to 30,000 pounds of payload in six pallet positions; a 12-passenger cabin plus a 3,005-cubic-foot cargo hold for up to 35,000 pounds of payload in seven pallet positions; or full-freighter mode consisting of a 3,370-cubic-foot cargo hold for up to 40,000 pounds of payload in eight pallet positions. The available positions will accommodate 88" x 125" or 88" x

108" pallets, with the seventh and eighth positions accommodating smaller pallets.

ATR offers new Vibration Monitoring System

Turboprop manufacturer ATR, has certified its new Vibration Monitoring System (VMS) which will allow airlines to constantly monitor and fine-tune propeller vibration. This innovation,

MRO & PRODUCTION NEWS

which will be available on all new aircraft from March 2018, improves both aircraft reliability and passenger comfort. It will also be available to retrofit on in service aircraft, via Service Bulletin. The new VMS will be permanently installed on the aircraft and replaces the previous temporary ground tooling systems used to monitor engine vibration. This equipment, which will be supplied by Meggitt Sensing Systems, removes the need for airlines to organize regular ground testing or put maintenance personnel on revenue flights, therefore improving maintenance efficiency.

FINANCIAL NEWS

Small Planet Airlines grows revenue by more than half in 2017 H1

Lithuanian leisure carrier Small Planet Airlines' revenue kept growing in the first half of 2017, reaching €118.1m – a 63.2% increase compared to the same period in 2016. Passenger flow grew by one-third and reached 871 000. The airline made a loss of €10.2m. This is the result of considerable investments in improving its on-time performance as well as hiring and training a growing number of crews. According to company executives, the loss is only a temporary side-effect created by the seasonality in aviation. Small Planet Airlines expects to reach a consolidated-revenue level of €286 million by the end of 2017, with planned profit reaching €5-6 million. The passenger flow should increase to nearly 2.7 million by the end of the year. (€1.00 = US\$1.18 at time of publication)

Lufthansa Group strengthens financial base with best-ever nine-month result

The Lufthansa Group increased its total revenues for the first nine months of the year by 12.1% to €26.761bn (prior-year period: €23.870bn). Traffic revenues rose 14.4% to EUR €21.360bn (prior-year period: €18.674bn). The

key performance indicator of Adjusted EBIT increased by €883m to €2.560bn (prior-year period: €1.677bn). As a result, the Lufthansa Group's result for the period was a further substantial improvement on its previous record level of 2016. The good nine-month result is attributable primarily to continuing positive business trends at the Group's airlines. Despite increasing overall capacity for the period by 11.7%, the Group's air carriers improved their aggregate nine-month seat load factor by 2.1 points. Unit costs, excluding fuel and currency factors, were reduced by 0.8% in the same period, though a slight 0.2% increase was recorded for the third quarter mainly due to provisions for higher profit sharing payments of 1.1 points).

Net profit for the first nine months of 2017 amounted to €1.853bn, broadly in line with a prior-year result that had felt the €713m positive impact of certain non-recurring items. Cash flow from operating activities increased €1.405bn to €4.459bn, thanks largely to the good result and higher advance bookings. Despite a 10.3% increase in capital expenditure to €1.802bn, free cash flow improved by 83.3% to €2.790bn (prior year: €1.518bn). (€1.00 = US\$1.18 at time of publication.)

Finnair Group reports strong third-quarter operating results

Finnair Group reported third-quarter 2017 revenue increased by 14.7% to €735.4m, compared to €640.9m in 2016. Available seat kilometers (ASK) grew by 11.1%. Comparable operating result was €147.5m, compared to €53.3m in 2016. Operating result was €122.2m, compared to €115.5m in 2016. Comparable EBITDAR for the third quarter was €188.9m, compared to €118.3m the previous year. Finnair estimates that in 2017 its capacity will grow approximately 9%, weighted strongly towards the second half of the year. Full-year revenue is expected to grow approximately in line with capacity. Finnair expects its comparable operating result for 2017 to be in the range of €135-155m (2016: €55m), if current fuel prices and exchange rates prevail and assuming no material changes in business environment. (€1.00 = US\$1.18 at time of publication.)

JetBlue's third-quarter net income down 10%

JetBlue Airways has reported its results for the third quarter 2017. The airline reported operating income of US\$310m, a decrease of 12.4% from the third quarter of 2016. Pre-tax income was US\$293m, a decrease of 11.2% from the third quarter of 2016. Third quarter net income was US\$179m million, this compares to JetBlue's third quarter 2016 net income of US\$199m. Operating revenue was US\$1.8bn. Revenue passenger miles for the third quarter increased 2.3% to 12.2 billion on a capacity increase of 3.7%, resulting in a third-quarter load factor of 85.1%, a 1.2 point decrease year over year. Yield per passenger mile in the third quarter was 13.32 cents, up 1.0% compared to the third quarter of 2016. Passenger revenue per available seat mile (PRASM) for the third quarter of 2017 decreased 0.4% year over year to 11.34 cents and operating revenue per available seat mile (RASM) increased 0.9% year over year to 12.67 cents. Compared with last year, operating expenses for the quarter increased 9.1%, or US\$125m. Interest expense for the quarter declined 18.5%, or US\$5m, as JetBlue continued to reduce its debt. JetBlue's operating expense per available seat mile (CASM) for the third quarter increased 5.2% year over year to 10.50 cents. Excluding fuel, third-quarter CASM1 increased 2.7% to 8.07 cents.

Air Canada reports strong financial performance in third quarter 2017

Air Canada has reported third-quarter 2017 EBITDAR of CA\$1.388bn compared to the previous third-quarter 2016 EBITDAR of CA\$1.248bn, an increase of CA\$140m. The airline recorded a third-quarter EBITDAR margin of 28.4%. On a GAAP basis, it reported third-quarter operating income of CA\$1.004bn compared to the previous third-quarter 2016 operating income of CA\$896m. Air Canada reported adjusted net income of CA\$950m in the third quarter of 2017 compared to adjusted net income of CA\$821m in the third quarter of 2016. The airline reported third-quarter net income of CA\$1.786bn compared to net income of CA\$768m in the previous

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FINANCIAL NEWS

year's quarter. In the third quarter of 2017, Air Canada recorded a net income tax recovery of CA\$793m on its consolidated statement of operations. This amount is excluded from Air Canada's reported adjusted net income. (US\$1.00 = CA\$1.29 at time of publication.)

MTU Aero Engines presents nine-month results and raises earnings forecast

In the first nine months of 2017, MTU Aero Engines AG saw its revenues increase by 10% to €3,745.4m (1-9/2016: €3,401.3m). The group's operating profit increased by 14% from €393.8m to €450.6m, improving the EBIT margin from 11.6% to 12.0%. Earnings after tax rose by 17% to €320.4m (1-9/2016: €273.4m). "Based on these results and the positive effects on earnings that we now expect to derive from our product mix, we are able to raise our earnings forecast for this year," said Reiner Winkler, CEO of MTU Aero Engines AG. "By year-end, we now expect adjusted EBIT to grow to around €600m and net income to reach around €420m." MTU's original forecast was adjusted EBIT of around €560m (2016: €503.0m) and adjusted net income of around €390m (2016: €345.4m). MTU has aligned its revenue forecast to reflect exchange rate changes and now expects to generate revenues of around €5.1bn instead of around €5.3bn (2016: €4.7327bn).

The strongest increase in MTU's revenues in the period January to September 2017 was attributable to the commercial maintenance business, where revenues grew by 26% from €1.3683bn to €1.7275bn. The main source of these revenues was the V2500 engine for the A320 family and the CF34 corporate jet and regional aircraft engine.

Revenues in the commercial engine business have increased by 5% from €1.7383bn to €1.8214bn. Revenues in the military engine business decreased by 24%, from €356.8m to €271.5m. The EJ200 Eurofighter engine was the main source of these revenues. At September 30, MTU had an order backlog of €12.129bn, compared with €14.1722bn at December 31, 2016. The majority of these orders relate to the V2500 and the Geared Turbofan™ engines of the PW1000G family, in particular the PW1100G-JM for the A320neo. (€1.00 = US\$1.18 at time of publication.)

Boeing reports third-quarter revenues of US\$24.3bn

The Boeing Company has reported third-quarter revenue of US\$24.3bn, with GAAP earnings per share of \$3.06 and core earnings per share (non-GAAP) of US\$2.72, reflecting strong deliveries, services and delivery mix, and overall solid execution.

The company's cash flow guidance is increased to US\$12.5bn from US\$12.25bn, driven by improved performance. Full year EPS guidance is increased to between US\$11.20 and US\$11.40 from US\$11.10 and US\$11.30 and core earnings per share (non-GAAP) guidance is increased to between US\$9.90 and US\$10.10 from US\$9.80 and US\$10.00 driven by a lower-than-expected tax rate.

Commercial Airplanes third-quarter revenue was US\$15.0bn on planned production rates and delivery mix. Third-quarter operating margin increased to 9.9%, reflecting higher 787 margins and strong operating performance on production programs, partially offset by additional cost growth of US\$256m on the KC-46 Tanker program due to incorporating changes into initial production aircraft as the company progresses through late-stage testing and the certification process.

During the quarter, Commercial Airplanes delivered a record 202 airplanes, including 24 737 MAX 8 airplanes. The production rate increased to 47 per month on the 737 program, and Boeing has confirmed plans to increase the 787 production rate to 14 per month in 2019. Development on 777X is on track as production has begun on the first complete wing for structural test.

Commercial Airplanes booked 117 net orders during the quarter. Backlog remains robust with nearly 5,700 airplanes valued at US\$412bn.

MILITARY AND DEFENCE

U.S. Air Force adds six more A-29 aircraft to A-29 Afghanistan program fleet

Sierra Nevada Corporation (SNC) and its partner Embraer Defense & Security have received orders from the U.S. Air Force's (USAF) A-29 Afghanistan Program for six more A-29 Super Tucano aircraft. The A-29 is used to conduct advanced flight training, aerial reconnaissance, and other A-29 Afghanistan Program operations. Production of these six new aircraft is to start immediately in Jacksonville, Florida and brings to 26 the total number of aircraft provided to the Program.

U.S. Air Force to preserve KC-10 avionics upgrade investment through sustainment contract with Rockwell Collins

Rockwell Collins will be an important part of the future of KC-10 avionics with a recent award from the U.S. Air Force Lifecycle Management Center (AFLCMC) at Wright Patterson Air Force base. The contract provides maintenance and sustainment of KC-10 avionics systems and

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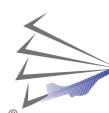
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MILITARY AND DEFENCE

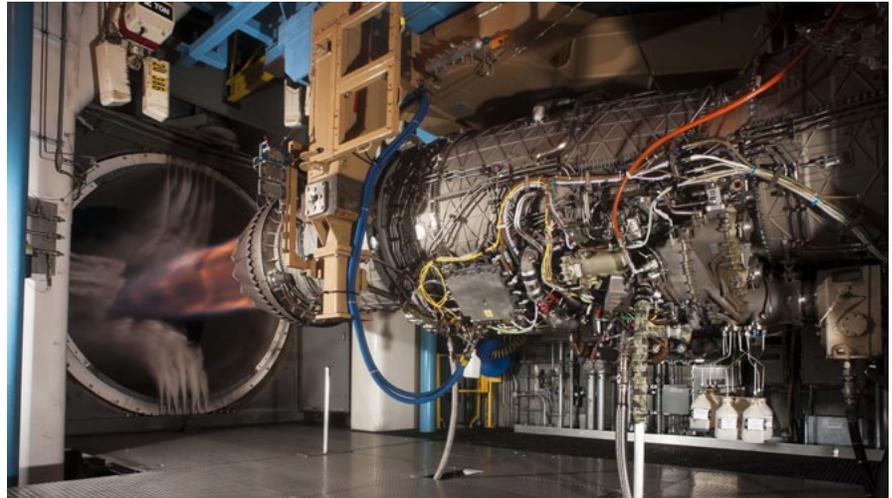
engineering services over the next nine years. Having recently completed the full Communications, Navigation, Surveillance and Air Traffic Management Systems (CNS/ATM) upgrade for the 59 aircraft KC-10 fleet, Rockwell Collins will now also be providing ongoing engineering support for the KC-10 Flight2™ integrated avionics system.

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GE Aviation and data and analytics company **Teradata**, have announced a strategic partnership focused on providing business outcomes driven by analytics for the world's leading airlines. Through the partnership, GE and Teradata will jointly provide products and services to specified commercial aviation markets. This strategic relationship includes joint marketing, sales, services and support across both companies, forming a complete market-ready solution that can be implemented today. By combining operations, assets and networks from GE Aviation with Teradata's customer information, sales and marketing, and back-office support, it makes the entire ecosystem easier to deploy, scale and use. For example, flight disruptions can be actively managed by GE with customer experience being managed by Teradata. With the combined solutions, the process to manage disruptions is more complete by adding information about managing parts inventories, logistics, scheduling, and labor pools. Other powerful business outcomes resulting from the combined solutions range from improving flight operations and predictive maintenance to increased operational efficiencies and higher customer satisfaction. "For data and analytics, it became clear that Teradata excels at the size and scale required by a global airline," said Andrew Coleman, chief commercial officer for GE Aviation's Digital Solutions business. "By integrating our expertise in asset performance management and operations optimization, with Teradata's ability to drive customer insights using massive amounts of data and multi-genre analytics, the aviation market will gain an analytic solution that delivers comprehensive insights."

In 2016 **DSNA**, the French air navigation service provider (ANSP) became the first in Europe to cross the 3 million safely controlled flights-per-annum barrier. With anticipated growth of 58% over the next two decades, meaning an extra 68 million travelers, DSNA has agreed with the **International Air Transport Association (IATA)** to cooperate on the development of a French Air Traffic Management (ATM) Strategy (FAS).

Pratt & Whitney's F135 engine cold section demonstrates full-life capability



Pratt and Whitney F135 engine

Photo: Pratt & Whitney

Pratt & Whitney has released that the F135 engine, which powers the fifth generation F-35 Lightning II, has successfully demonstrated full-life capability of its cold section (components consisting of the fan and compressor) during accelerated mission testing (AMT) at the Arnold Engineering Development Complex, located on Arnold Air Force Base in Tullahoma, Tenn. This achievement of 9,400 total accumulated cycles (TAC) – the equivalent of approximately fourteen years of operation or approximately 2,000 F-35 missions – was completed while running the engine at extreme conditions to simulate operational engines. AMT is conducted as a means of testing and validating reliability and maintainability performance for the engine over the span of its life. It also helps identify any potential issues well before they would be encountered by the operational fleet. Made possible by the U.S. Air Force Component Improvement Program, this test was focused on the Conventional Takeoff and Landing (CTOL) engine variant which powers both the F-35A and F-35C models. Testing took place between August 2014 and October 2017, and consisted of two hot section intervals, which is equivalent to the cold section life. During AMT, F135 engines accumulate equivalent flight hours under monitored conditions and at a faster rate than in operating aircraft. The advanced data collection from this program identifies improvement opportunities aimed at maximizing readiness within the life cycle cost expectations for the entire F135 CTOL powered F-35 fleet.

France will be required to optimize its airspace if it is to service the anticipated growth in demand, reduce costs, CO2 emissions and delays and this can only be done through the optimization of its airspace and modernization of its air traffic management. It has been estimated that economic benefits of such actions could generate an additional €33 billion in annual GDP compared to today's €106 billion supported by air transport. 105,000 extra jobs should also be created. In the context of its well-established collaborative decision making (CDM) process, DSNA commits to work in full transparency with its airspace customers and other key stakeholders on the FAS, specifically in relation to airspace management, human resources management and technical modernization of ATM systems. According to IATA Director-General and CEO, Alexandre de Juniac: "This partnership marks a defining moment in the relationship between DSNA and its customer airlines, and could signify the start of a change in how Europe's skies are managed. DSNA have shown real vision to bring

airlines into the strategic direction of air navigation service provision. Together, we can help create a plan which will bring great benefits to France. We look forward to working with DSNA to make the French ATM Strategy not only a success for France, but a model for other European ANSPs to follow, so that the work of airspace optimization can bring benefits to all of Europe's citizens, and the goals of the Single European Sky can be achieved."

Some of the elements the French ATM Strategy will include: Governance arrangements; strategic investment decisions; business continuity; airspace change for more capacity and more efficient routes, to reduce fuel burn and emissions, and enhanced cooperation with European partners to accelerate the Single European Sky initiative. (€1.00 = US\$1.18 at time of publication.)

The **Federal Aviation Administration (FAA)** has updated its long-standing aviation safety agreement with the **European Aviation Safety Agency**

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(EASA). The changes in this agreement enhance the risk-based approach to safety by optimizing reliance on each authority's expertise in aircraft certification through Revision 6 of the Technical Implementation Procedures (TIP). The revision will go into effect six months from the signing date of September 22, 2017. Typically, the FAA and EASA do not completely duplicate each other's certification of aircraft products, instead each entity performs a "validation" of certification activities. The new TIP revision will permit increased acceptance of approvals without technical involvement by the authority conducting the validation. In certain cases, the revised TIP also will allow a streamlined validation process to expedite issuance of a type certificate without technical review. These changes give both the FAA and EASA the opportunity to have even greater reliance on the regulatory capabilities and the technical competencies of one another's aircraft certification systems. When technical involvement is necessary to validate a product, a work plan will now be required to define the extent of the validating authority's involvement. This provides a structured approach using program management principles to ensure accountability to the bilateral agreement. Revision 6 of the TIP contributes directly to the FAA's overall vision of global leadership by promoting international partnerships to reduce barriers and leads the advancement of aviation safety across geopolitical boundaries.

AMOS, the comprehensive, fully-integrated MRO software solution, has been selected by the Italian start-up airline Ernest Airlines. The airline relies on a Swiss-AS "care-free package", a combination of the proven AMOS Operation Services (AOS, covering the application and database administration) and hosting. Ernest Airlines is an Italian low-cost carrier headquartered in Milan, Italy. The airline offers flights from Italy to Albania and Ukraine and launched its operations only this year. The startup airline currently operates one Airbus A319 and one A320, with a growing fleet, which is planned to reach five aircraft by early 2018 with the addition of three A320s.

Leonardo announced at African Air Show 2017 that the company has signed two contracts to provide ATC systems for Somalia and Sudan. The first contract was signed in Montreal with the International Civil Aviation Organisation (ICAO) on behalf of the Federal Government of Somalia. Leonardo, with the support of its local subsidiary Selex ES Technologies Limited (SETL, based in Kenya), will provide a national Area Control Centre (ACC) as well as three tower control centers for three major airports, for a total of 16 operator control positions, along with



Sabre, China Airlines signing ceremony

Photo: Sabre

Sabre has signed a partnership agreement with China Airlines that will modernize and transform the airlines' operational systems and processes. The partnership will provide China Airlines with Sabre AirCentre Movement Manager solution, which provides operations controllers with the capability of monitoring the status of flights, making the overall network more efficient. China Airlines has a long-standing strategic partnership with Sabre, utilizing other Sabre solutions such as crew management, schedule management and network planning across the carrier's entire operations. The addition of Sabre AirCentre Movement Manager will increase on-time performance by communicating movement or irregular operations information simultaneously to other flight operations personnel, eliminating the need for duplicate data entry and make problem resolution more efficient. By reducing operational-related delays and cancellations, airlines will improve their travelers' experience as well.

a VHF radio system and satellite network. The systems will be operational by mid-2018 and will guarantee the total management and control of the Somali air traffic. The national area control centre will integrate a wide range of products and tools to comply with various operational requirements and Air Traffic Management environments, ranging from large, nation-wide, enroute area control centers to small approach and tower control units. Leonardo will also provide the Sudan Civil Aviation Authority (SCAA) with a nationwide ADS-B network and will upgrade four secondary radar systems, which SCAA acquired in 2009 from Leonardo and are currently operational in Khartoum, Port Sudan, Dongola and El Obeid

Hungary-based Wizz Air is to apply for a U.K. air operator's certificate (AOC). While not currently operating any flights wholly within the U.K., Wizz Air sees this as a progressive move to "ensure that our U.K. operations are Brexit-ready." Because flying rights are currently governed by EU-wide deals and are not part of the World Trade Organization, the aviation sector has no natural fallback arrangement to protect flights in the event that no Brexit deal is reached by March 2019. While Wizz Air is listed in London, the majority

of its flights are Europe focused. However, if the AOC is granted, this could see an additional 100 jobs created at the low-cost carrier's hub in Luton, Bedfordshire. On the reverse side of the coin, easyJet has chosen to apply for an Austrian AOC to enable the carrier to fly between European states after Brexit takes place. Even with various AOCs in place, airlines still need governments to agree new traffic agreements. A number of people in the industry have made it clear that flights from Britain to remaining EU countries could be grounded unless progress is soon made. One of the major problems surrounding the uncertainty of Brexit is the fact that, according to the Principal of Whitaker Airspace, Michael Whitaker, "Airlines sell tickets 300 days out, so they are about six to eight months away from needing some certainty."

American Airlines, in coordination with the Transportation Security Administration (TSA) and Miami-Dade Aviation Department, has launched two automated security screening lanes in Terminal D at Miami International Airport (MIA). These new automated screening lanes, funded by American Airlines, incorporate technology and screening station modifica-

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tions that enhance security effectiveness while decreasing the time travelers spend in security screening. The advanced equipment in the automated lanes offers a number of unique features designed to improve the screening of travelers by automating many of the functions currently conducted manually, allowing passengers to move more swiftly through the checkpoint. These innovations include:

- Automated belts that draw bags into the X-ray machines, returning the bins back to queue after completion of the screening
- Bags with a potential threat can be directed to a separate area to allow bins behind it to continue through the system uninterrupted
- Property bins that are 25% larger than the bins in regular screening lanes
- Unique Radio Frequency Identification (RFID) tags that are attached to each bin to allow for additional accountability of items as they transit throughout the system
- Cameras that capture photos of the outside of the bag, which is linked to the X-ray image of the bag's contents

American has also launched automated screening lanes at hubs in Chicago, Dallas/Fort Worth, Los Angeles and New York City.

On Sunday, October 29, 2017, the winter schedule comes into effect at **Václav Havel Airport Prague**. 61 airlines plan to operate at Václav Havel Airport Prague during the winter season, with 56 air carriers servicing passenger routes. The new schedule features regular connections to 112 destinations, which is eight more than during the same period last year. The winter schedule will be in effect at Václav Havel Airport Prague until March 24, 2018. A total of 41 countries will be serviced from Václav Havel Airport Prague during the winter schedule. Great Britain will be the country with the most operated destinations, thanks to

the 15 different places connected with Prague (3 more than last winter), followed by Russia with ten destinations and Spain, Italy and France with nine destinations. Iceland and Georgia are the new additions to the list of countries operated in winter seasons. The greatest number of flights a day will head to London this winter season, with up to 13 daily connections. For the first time in the airport's history, all international airports in London will be connected with Prague thanks to a new route to London/City airport serviced six times a week by **BA Cityflyer**, a daughter company of **British Airways**. Moscow will be among the destinations heavily frequented this winter too, with up to nine daily connections, followed by Paris, Amsterdam and Frankfurt with up to seven flights a day.

CTT Systems, a market leader in aircraft humidity control systems, has received two Zonal Drying™ Buyer Furnished Equipment orders, for a total of eight **Boeing** Next-Generation 737-800 aircraft. The eight Zonal Drying™ systems will be line fitted by Boeing from December 2017 to December 2018. The Zonal Drying™ system removes trapped water in blankets, keeps the crown area dry and prevents unwanted excess weight from water accumulation. Consequently, on every flight airlines can operate with lower energy needs and less pollutant emissions.

Finnair will start a collaboration with JD.com, also known as **Jingdong**, one of the leading e-commerce companies in China. Finnair will be the first non-Chinese airline to open a flagship store for online flight bookings on the JD Travel platform, in the beginning of 2018. The collaboration also includes promotions and loyalty member partnerships. As a travel service platform for one of China's largest online retailers, JD Travel benefits from JD.com's 258.3 million customer base. Through partnering with Finnair, JD Travel will deepen its foothold in the international travel market. Over the past decade, Fin-

nair has placed a strong strategic focus on the Chinese market and is fast becoming one of the biggest European carriers operating between Europe and China. The opening of the Nanjing route in May 2018 will increase Finnair's growing footprint in Northeast Asia, with the Finnish carrier flying to seven destinations in Greater China during the 2018 summer season.

Sabre Corporation has renewed its partnership with **Air Busan**, an **Asiana Group** affiliate. The partnership will see travel agents on Sabre's platform continue to enjoy access to the best of Air Busan's fares and inventory. Sabre has forged a strong relationship with Air Busan since 2012, when the low-cost carrier first selected Sabre as its global distribution system (GDS) partner. As Air Busan develops new growth and distribution strategies to keep up with the competition, they have extended their outreach to cover international routes.

In the release of the recent update to the **International Air Transport Association** 20-Year Air Passenger Forecast, passenger numbers traveling in 2036 are expected to reach 7.8 million, nearly double the 4 billion passengers that are expected to travel during 2017, based on a 3.6 percent average Compound Annual Growth Rate (CAGR). According to IATA's Director and CEO, Alexandre de Juniac: "All indicators lead to growing demand for global connectivity. The world needs to prepare for a doubling of passengers in the next 20 years. It's fantastic news for innovation and prosperity, which is driven by air links. It is also a huge challenge for governments and industry to ensure we can successfully meet this essential demand."

Asia has been identified as the region which will develop the most, contributing to over 50 percent of the increase in traveller numbers. Since last year's forecast, 2022 has now been calculated to be the year when China will displace the USA as the world's largest aviation market,



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based on passengers flying from, into and within the country. As far as other major domestic markets are concerned, the UK is expected to be overtaken by India in 2025 and Indonesia in 2030 in the number of travellers. Beyond that, France and Italy will drop out of the top ten, being surpassed by Thailand and Turkey.

The projected numbers are heavily dependent on maximizing the potential benefits of aviation growth. Consequently, current levels of trade liberalization and visa facilitation need to be maintained. If trade protectionism and travel restrictions become a factor, benefits of air connectivity may decline as growth could slow to 2.7%, resulting 1.1 billion fewer passenger journeys annually in 2036. Conversely, if moves towards liberalization increase, annual growth could be more than two percentage points faster, which will lead to a tripling in passenger numbers over the next 20 years.

INDUSTRY PEOPLE



Lars Wagner

- MTU Aero Engines' Executive Board will be reorganized, with the number of members increasing from three to four. This has been decided by the company's Supervisory Board at its meeting on October 24. Effective January 1, 2018, **Peter Kameritsch** has been appointed Chief Financial Officer and Chief Information Officer for a term of three years. **Lars Wagner** will become the new Chief Operating Officer, also for a term of three years.



Peter Kameritsch

Dr. Rainer Martens, who currently holds the position of Chief Operating Officer, will resign from his office by year's end at his own request.

- BACA – The Air Charter Association makes a series of appointments to drive the ambitious development of the Association. **Dave Edwards** has been appointed to the role of BACA CEO. The part-time appointment is part of BACA's strategy to drive the Association forward. In addition to Edwards' appointment, **Madeleine Puzey** has been promoted to the role of Business and Events Manager and a new administration role has been created which sees **Nicki Baynes** providing key support to the Association.

Recommended Events



+44 (0) 1342 324353
+44 (0) 7941 969401
everest@everestevents.co.uk

Dubai Airshow 2017

November 12, 2017 – November 16, 2017

Aircraft Economic Life Summit 2017

November 28, 2017 - Gibson Hotel, Dublin, Ireland

Operating Lease Seminar 2018

March 20, 2018 - Hilton Garden Inn Hotel, Dallas

Aircraft Records & Total Asset Management Seminar 2018

April 18, 2018 - Gibson Hotel, Dublin, Ireland

Technical Aspects of a Leased Asset 2018

June 5, 2018 - Jury's Inn Hotel, Prague

Maintenance Reserves Seminar 2018

June 6, 2018 - Jury's Inn Hotel, Prague

[Click here for more aviation events](#)

- Aviation Capital Group has promoted **Steven C. Udvar-Hazy** to Senior Vice President. He will succeed **John Feren** as head of Original Equipment Manufacturers (OEM) Relations & Market Development, effective December 31, 2017. As Senior Vice President, Mr. Udvar-Hazy will be responsible for OEM relations at ACG. In addition to his responsibilities for OEMs, he will also be building a market development function that will leverage his knowledge of aircraft and the aviation industry to assist the sales and marketing teams.

- **Doug Rasmussen** will be joining the executive leadership team of HAECO Americas, a wholly-owned subsidiary of the HAECO Group, as President and Group Director of HAECO Cabin Solutions. Mr. Rasmussen has deep experience in the aviation industry and the aircraft interiors' market, with more than 15 years in industry leadership positions, most recently with Raytheon Missile Systems and, before that, B/E Aerospace's Super First Class Seating business.

- **Richard Walker** has been appointed Business Development Director for Osprey Flight Solutions, a brand-new company which is introducing a major step change in aviation security expertise. Effective immediately, based out of Leeds, UK, Mr. Walker's day to day role will include building the sales pipeline, closing deals and increasing brand awareness of Osprey and its innovative technology, airport and airspace intelligence.

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Commercial Jet Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
A319-112	World Star Aviation Services	CFM56-5B	1429		Nov 2017	Lease	Tommy Guttman	tguttman@worldstaraviation.com	+972-544-220000
A320-200	Castlelake	V2527-A5	2288	2003	Q4/2018	Lease	Michael Hackett	michael.hackett@castlelake.com	+44 20 7190 6120
A320-200	Castlelake	V2527-A5	2161	2003	Q4/2018	Lease	Michael Hackett	michael.hackett@castlelake.com	+44 20 7190 6120
A320-200	Fortress Investment Group	V2500-A5	561	1995	Oct 2017	Sale - Airframe	Jeff Lewis	aviation@fortress.com	+1 (305) 833-0309
A330-200	Castlelake	CF6-80E1A4B	441	2001	Q4/2018	Lease	Michael Hackett	michael.hackett@castlelake.com	+44 20 7190 6120
A330-200	FPG Amentum	PW4168A	943	2008	Q2/2018	Sale / Lease	Eoin Kirby	eoin.kirby@fpg-amentum.aero	+353 1 6398118
A330-200	FPG Amentum	PW4168A	962	2008	Q2/2018	Sale / Lease	Eoin Kirby	eoin.kirby@fpg-amentum.aero	+353 1 6398118
A330-223	FPG Amentum	PW4168A	979	2009	Now	Sale / Lease	Eoin Kirby	eoin.kirby@fpg-amentum.aero	+353 1 6398118
A330-223	FPG Amentum	PW4168A	1002	2009	Now	Sale / Lease	Eoin Kirby	eoin.kirby@fpg-amentum.aero	+353 1 6398118
B737-300	Advantage Aviation Serv. Sweden	CFM56-3B1	27930	1995	Now	Sale / ACMI	Fredrik Rydeholm	fredrik.rydeholm@advantageavio.se	+46 70 5350811
B737-300	World Star Aviation Services	CFM56-3C1	28873		Now	Lease	Tommy Guttman	tguttman@worldstaraviation.com	+972-544-220000
B737-400	Safair Operations	Freighter	East Africa		Dec 2017	ACMI only	C. Schoonderwoerd	corneliss@safair.co.za	+27 11 928 0000
B737-400	Aersale	CFM56-3C1	27149	1993	Now	Sale / Lease	Craig Wright	Craig.Wright@aersale.com	+1 305 764 3238
B737-800	ORIX Aviation	CFM56-7B26	34701	2006	Q1/2018	Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 871774524
B737-800	ORIX Aviation	CFM56-7B26	34705	2006	Q3/2018	Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 871774524
B737-800	ORIX Aviation	CFM56-7B26	34707	2006	Q3/2018	Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 871774524
B737-800	ORIX Aviation	CFM56-7B24E	40287	2012	Q1/2019	Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 871774524
B737-800	ORIX Aviation	CFM56-7B24E	40146	2013	Q1/2018	Sale	Cian Coakley	cian.coakley@orixaviation.hk	+852 2863 6829
B737-800	ORIX Aviation	CFM56-7B24E	40151	2013	Q1/2018	Sale	Cian Coakley	cian.coakley@orixaviation.hk	+852 2863 6829
B737-800	ORIX Aviation	CFM56-7B24E	40152	2013	Q1/2018	Sale	Cian Coakley	cian.coakley@orixaviation.hk	+852 2863 6829
B737-800	ORIX Aviation	CFM56-7B24E	40145	2013	Q1/2018	Sale	Cian Coakley	cian.coakley@orixaviation.hk	+852 2863 6829
B737-800	FPG Amentum	CFM56-7B24E	40150	2013	Q1/2018	Sale / Lease	Eoin Kirby	eoin.kirby@fpg-amentum.aero	+353 1 6398118
B737-800	FPG Amentum	CFM56-7B26E	40153	2013	Q1/2018	Sale / Lease	Eoin Kirby	eoin.kirby@fpg-amentum.aero	+353 1 6398118
B737-800	Aersale	CFM56-7B26	30881	2002	Now	Sale / Lease	Sally Browne	Sally.Browne@aersale.com	+353 86 021 4841
B737-800	World Star Aviation Services	CFM56-7B26	32604	2002	Now	Sale / Lease	Paulo Bettencourt	pbettencourt@worldstaraviation.com	+1 415-956-9454
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
B747-400	GA Telesis	RB211-524	26637	1992	Now	Sale	Eddo Weijer	eweijer@gatelesis.com	+1 954 676 3111
B747-400	GA Telesis	PW4000	29950	2000	Now	Sale	Stuart Weinroth	sweinroth@gatelesis.com	+1 954 676 3111
B747-400	Jet Midwest	PW4056-3	29906	1999	Now	Sale / Lease	Kevin Lee	aircraft@jetmidwest.com	+1-310-652-0296
B747-400BCF	Jet Midwest	PW4056-3	24226	1990	Now	Sale / Lease	Kevin Lee	aircraft@jetmidwest.com	+1-310-652-0296
B757-200	ORIX Aviation	RB 211-535E4	27810	1995	Q1/2019	Sale	Oisin Riordan	oisin.riordan@orix.ie	+353 871774524
B757-200F	Aerolease	RB211	22211		Now	Sale / Lease	Tim Corley	tcorley@aerolease.com	+1 (360) 870-9172
B757-200F	Aerolease	RB211	22611		Now	Sale / Lease	Tim Corley	tcorley@aerolease.com	+1 (360) 870-9172
B777-200ER	GA Telesis		28999		Now	Sale	Stuart Weinroth	sweinroth@gatelesis.com	+1 954 676 3111
B777-200ER	GA Telesis		28523		Now	Sale	Stuart Weinroth	sweinroth@gatelesis.com	+1 954 676 3111
DC8	Aersale	No engines	46094	1969	Now	Sale	Craig Wright	Craig.Wright@aersale.com	+1 305 764 3238

Regional Jet / Turbo Prop Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
CRJ-200LR	Regional One	CF34-3B1	7484	2001	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
CRJ-900LR	Regional One	CF34-8C5	15057	2005	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
DASH8-102	Magellan Aviation Group	PW121	113	1988	Now	Sale / Lease	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
DASH8-311	Regional One	PW121	230	1990	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164

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Regional Jet / Turboprop Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
DASH8-311	Magellan Aviation Group	PW123	266	1991	Now	Sale / Lease	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
Dornier 328-300	Regional One	PW306B	3145	2000	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
Dornier 328-300	Regional One	PW306B	3185	2001	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
E170	AerFin	CF34-8E	121		Now	Sale / Lease	Oliver James	Oliver.James@aerfin.com	+44 (0) 2920109898
E170	AerFin	CF34-8E	158		Now	Sale / Lease	Oliver James	Oliver.James@aerfin.com	+44 (0) 2920109898
E170	AerFin	CF34-8E	114		Now	Sale / Lease	Oliver James	Oliver.James@aerfin.com	+44 (0) 2920109898
ERJ-145	Regional One	AE3007A1P	145291	2000	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164

Commerical Engines

Multiple Types	Sale / Lease	Company	Contact	Email	Phone
Multiple Engines GE / CFM / RB211	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
AE3007 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) AE3007A1	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(3) AE3007A1P	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 786-623-3936
(2) AE3007	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1 954 676 3111
CF34 Engines	Sale / Lease	Company	Contact	Email	Phone
CF34-8E5	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
CF34-10E	Now - Lease				
CF34-8C	Now - Lease				
CF34-3B1	Now - 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				
(1) CF34-10E5A1	Now - Sale / Lease	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(1) CF34-3B1	Now - Sale				
(1) CF34-8C5/B1	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(8) CF34-8E	Q4/2017 - Sale / Lease	AerFin	Oliver James	Oliver.James@aerfin.com	+44 (0) 2920109898
(1) CF34-10E7	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
(1) CF34-10E7	Now - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
CF6 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CF6-80C2B1F	Now - Sale / Lease	AerSale. Inc.	Alan Kehoe	Alan.Kehoe@aersale.com	+353 879 393 534
(1) CF6-80C2A5	Now - Sale / Lease		Alan Kehoe	Alan.Kehoe@aersale.com	+353 879 393 534
(1) CF6-80C2B6F	Now - Sale / Lease		Matthew White	matthew.white@aersale.com	+353 1475 3005
(1) CF6-80C2B7F	Now - Sale / Lease		Matthew White	matthew.white@aersale.com	+353 1475 3005
(1) CF6-80C2A2/A5	Now - Sale / Lease	Castlake	Stuart MacGregor	stuart.macgregor@castlake.com	+44 207 190 6138
(1) CF6-80C2B7F	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(5) CF6-80C2B1F	Now - Sale			aircrafttrading@gatelesis.com	



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Commerical Engines (cont.)

CFM56 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CFM56-3C1	Aug 17 - Sale / Lease	Royal Aero	Frank Rustmeier	frank@royalaero.com	+49 (0)8025 99360
(1) CFM56-5A3	Nov 17 - Sale / Lease				
(2) CFM56-5B	Now - Sale / Lease	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(2) CFM56-7B26	Now - Sale				
(1) CFM56-7B22/E	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CFM56-7B26/3	Now - Lease				
(1) CFM56-5B4/3	Now - Lease				
(2) CFM56-5C4/P	Now - Sale / Lease	Castlelake	Stuart MacGregor	stuart.macgregor@castlelake.com	+44 207 190 6138
(1) CFM56-7B26	Now - Sale/Lease/Exch.	AerSale. Inc.	Alan Kehoe	Alan.Kehoe@aersale.com	+353 879 393 534
(2) CFM56-3C1	Now - Sale / Lease				
(2) CFM56-5A	Now - Sale	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
(1) CFM56-5C4	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) CFM56-7B20 TRUEngine™	Now - Sale / Exchange	CFM Materials	Jimmy Hill	Jimmy.Hill@cfmmaterials.com	+1 214-988-6670
(1) CFM56-7B24 TRUEngine™	Now - Sale / Exchange				
(1) CFM56-7B27 TRUEngine™	Now - Sale / Exchange				
(1) CFM56-5B4/P TRUEngine™	Now - Sale / Exchange				
(1) CFM56-7B26	Now - Lease	Fortress Investment Group	Tom McFarland	Aviation@fortress.com	+1 305-520-2349
(1) CFM56-3C1	Now - Sale / Lease				
(2) CFM56-5C3/F4	Now - Sale/Lease/Exch.	AerFin	R. Rosser		+442921676296
(7) CFM56-5C4	Now - Sale/Lease/Exch.				
(1) CFM56-5B	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@wernerapro.com	+1-703-402-7430
(1) CFM56-7B	Now - Sale/Lease/Exch.				
(1) CFM56-5B4/3	Now - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
(1) CFM56-5C4/P	Now - Lease				
(1) CFM56-5C4	Now - Lease				
(1) CFM56-7B26/3	Now - Lease				
(1) CFM56-7B26	Oct 2017 - Lease				
(1) CFM56-5B4/P	Now - Lease				
(1) CFM56-7B24/3	Now - Lease				
JT8D and JT9D Engines	Sale / Lease	Company	Contact	Email	Phone
(1) JT8D-219	Now - Sale	Azure Resources	Jeffrey Young	jeff@azureres.com	+1-954-796-8158
(1) JT9D-7R4D-E	Now - Sale/Lease	Jet Midwest	Kevin Lee	engines@jetmidwest.com	+1-310-652-0296
(1) JT8D-219	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1 954 676 3111
PW Small Engines	Sale / Lease	Company	Contact	Email	Phone
(1) PW121 (Dash 8)	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) PW123B/D/E	Now - Sale / Lease				
(1) PW124B	Now - Sale / Lease				
(1) PW121 (ATR)	Now - Sale / Lease				
(1) PW127E/F/M	Now - Sale / Lease				
(1) PW150A	Now - Sale / Lease				
(2) PW121 (ATR)	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	ddesaulniers@willislease.com	+1 415 516 4837
(2) PW121-8	Now - Sale/Lease/Exch.				
(1) PW123	Now - Sale/Lease/Exch.				
(1) PW127	Now - Sale/Lease/Exch.				
(2) PW150A	Now - Sale/Lease/Exch.				
(1) PW127M	Now - Sale/Lease/Exch.				
(2) PW127F	Now - Sale/Lease/Exch.				
(2) PW124B	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				

Commerical Engines (cont.)

PW127M	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
PW150 GRB	Now - Lease				
(1) PW124B	Now - Sale/Lease/Exch.	Logix.Aero	Jean-Christian Morin	jcmorin@logix.aero	+33.6.4782.4262
(1) PW127F			Remi Krysz	rkrysz@logix.aero	+33.6.2079.1039
(1) PW127M					
(1) PW120 / PW121	Now - Sale / Lease	Royal Aero	Frank Rustmeier	frank@royalaero.com	+49 (0)8025 99360
PW2000 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) PW2037M	Now - Sale / Lease	Fortress Investment Group	Tom McFarland	Aviation@fortress.com	+1 305-520-2349
PW4000 Engines	Sale / Lease	Company	Contact	Email	Phone
(2) PW4056-1	Now - Sale/Lease/Exch.	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(1) PW4056-3	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(2) PW4090	Q1/2018 - Sale / Lease	Castlelake	Stuart MacGregor	stuart.macgregor@castlelake.com	+44 207 190 6138
(1) PW4168A	Sep 17 - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) PW4056-3	Now - Sale/Lease	Jet Midwest	Kevin Lee	engines@jetmidwest.com	+1-310-652-0296
(1) PW4060-3	Now - Sale / Lease	AerSale. Inc.	Matthew White	matthew.white@aersale.com	+353 1475 3005
(1) PW4062-3	Now - Sale / Lease		Matthew White	matthew.white@aersale.com	+353 1475 3005
(1) PW4056-3	Now - Sale / Lease		Alan Kehoe	Alan.Kehoe@aersale.com	+353 879 393 534
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
(3) Trent 800	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(1) Trent 892	Now - Sale/Lease/Exch.	AerSale. Inc.	Matthew White	matthew.white@aersale.com	+353 1475 3005
(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	Bobby Janagan	bobby.janagan@rolls-royce.com	+44 20 7227 9078
V2500 Engines	Sale / Lease	Company	Contact	Email	Phone
1) V2533-A5 w/QEC	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Bobby Janagan	bobby.janagan@rolls-royce.com	+44 20 7227 9078
(1) V2533-A5	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) V2533-A5	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@wernerairo.com	+1-703-402-7430

Aircraft and Engine Parts, Components and Misc. Equipment

Description		Company	Contact	Email	Phone
(2) A320-200 Landing Gear	Now - Sale	TrueAero, LLC	Matt Parker	mparker@trueaero.com	+1 469-607-6110
(2) A340-600 Landing Gear	Now - Sale				
(1) A340-300 Landing Gear	Now - Sale				
(2) GTCP331-500	Now - Sale				
(2) GTCP331-350C	Now - Sale				
(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				
Neutral CFM56-5B & CFM56-7B QEC Kits	Now - Sale	CFM Materials	Michael Arellano	michael.arellano@cfmmaterials.com	+1 214-988-6676
GTCP131-9A, GTCP131-9B, GTCP331-350C	Now - Sale/Lease/Exch.	Logix.Aero	Jean-Christian Morin	jcmorin@logix.aero	+33.6.4782.4262
GTCP331-500B, GTCP331-500B			Rich Lewsley	riewlsley@logix.aero	+44.79.0021.8657
APU GTCP 331-500	Now - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
Engine stands now available	Now - Lease				
(2) GTCP131-9B, (2) GTCP131-9A	Now - Sale / Lease	GA Telesis	Dave Dicken	ddicken@gatelesis.com	+1 954-676-3111
B737-400 main landing gears, with 2015 tags		World Star Aviation Services	Tommy Guttman	tguttman@worldstaraviation.com	+972-544-22000
767-300ER 413K LANDING GEAR	Now - Sale	Azure Resources	Jeffrey Young	jeff@azureres.com	+1-954-796-8158
737-300/400 LANDING GEAR					
CFM56-3 MODULES					
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@Wernerairo.com	+1 201-674-9999
GTCP36-300A, 737-800 Winglets	Now - Sale / Lease				
737-700 & 737-800 Landing Gear	Now - Sale / Lease				
737-800 NOSE LANDING GEAR PN 162A1100-5, OH - Now Sale		Reliance Aircraft	Terry Hix	thix@relianceaircraft.com	+1 512-439-6988
767-300 Winglets, LH-RH P/N 767-0010-7 & -8					
(2) PW901A, (1) PW901C(1), PW125B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368