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WORLD NEWS

Copa Airlines to connect the city of Mendoza

Copa Airlines has launched services from its hub at Panama City to Mendoza in Argentina. The new destination will have four weekly frequencies. Mendoza is the fourth province with the largest number of inhabitants of Argentina and is part of the prestigious global network of Great Wine Capitals, which is why it is recognised as one of the main winemaking centres of the world.

S7 Airlines opens flights to Saransk

As of February 16, 2018, Russian carrier S7 Airlines opens daily scheduled flights on the route Moscow and Saransk. S7 Airlines will operate flights to Saransk, the capital of the Republic of Mordovia, as part of the development of regional air travel on modern Embraer 170 aircraft, designed to carry 78 passengers in a comfortable economy class cabin.

Wizz Air to buy 146 A320Neos

Following a competitive selection process, Wizz Air has signed a memorandum of understanding with Airbus relating to the purchase of a further 146 Airbus A320neo family aircraft (72 A320neo and 74 A321neo). While deliveries will start in 2022, the bulk of the aircraft will be delivered in 2025 and 2026, following on from the delivery of the 110 Airbus A321neo aircraft ordered by Wizz Air in 2015. Under the memorandum of understanding Wizz Air has the right to substitute many the A320neo aircraft with the Airbus A321neo and vice versa, depending on its future requirements.



The order book stood at almost US\$113.8 billion.

Photo: Dubai Airshow

Dubai Air show reviewed

As bi-annual event reaches new heights

As the doors closed on another record-breaking Dubai Air show, exhibitors are rushed to close deals and re-book for the next edition of the biennial event, in 2019.

Trade visitors to the event were up around 20% on the 2015 event.

At the end of the show's final day, the order book stood at almost US\$113.8 billion with Michele van Akelijen, Managing Director of organisers, Tarsus F&E LLC Middle East, saying: "The figures speak for themselves – it's been another successful year. Dubai is geographically at the centre of the global aviation world, and Dubai Air show is where the sector comes to do business. We

have seen incredible, unmatched deals, innovations and ideas.

Returning international exhibitor Turkish Technic, a maintenance, re-

man, Muhammed Memduhoglu.

Swiss aircraft manufacturer Pilatus shored up its regional business with a strong presence at the heart of the exhibition hall. Spokesman Bruno Cabrini said he saw a great deal of interest in the com-

pany's latest aircraft offering – the PC-24, the world's first business jet which can be used on short, unprepared runways.

The Airshow was marked by game-changing deals from start to finish. Airbus revealed its largest single announcement ever – a US\$49.5 billion deal with Indigo Partners to

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"The figures speak for themselves – it's been another successful year."

Michele van Akelijen, Managing Director, Tarsus F&E LLC Middle East

pair and overhaul company based at Istanbul's Ataturk Airport, is celebrating a successful Dubai Air show, and plans to return for the 2019 edition.

"During this year's event, we signed an MoU with Saudia Aerospace Engineering Industries, expanding our support of its customer's fleet in the region," said Turkish Technic spokes-

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purchase 430 aircraft in its A320neo family. With the Airbus order, Indigo Partners, a US-based private equity fund, has doubled its existing order of 427 A320 family aircraft. The fund owns four ultra-low-cost airlines, Wizz Air, Frontier Airlines, JetSMART and Volaris.

Boeing won large commitments across its twin- and single-aisle commercial airplane families. Boeing inked a US\$27 billion deal with carrier flydubai for 225 aircraft in its 737 MAX family, the largest-ever single-aisle jet order – by number of airplanes and total value – from a Middle East carrier.

“This has been a very successful show for Boeing. Our regional customers have maintained their trust in our products and technology, and our partnerships in the Middle East region continue to grow,” said Bernard Dunn, President, Boeing Middle East, North Africa and Turkey.



The Airshow was marked by game-changing deals.

Photo: Dubai Airshow

AIRCRAFT & ENGINE NEWS

VietJet Air and Vietnam Airlines select P&W PurePower Geared Turbofan engines

Vietnam Airlines has selected the P&W PurePower Geared Turbofan (GTF) engine to power 20 A321neo Airbus aircraft. The deal, which is valued at US\$1.5bn at list prices, includes a 12-year EngineWise Fleet Management Program. VietJet Air is another Vietnamese airline to choose the PurePower Geared Turbofan (GTF) engine, in this instance to power an order of 10 new aircraft. The deal also includes a 12-year EngineWise Fleet Management Program. This order follows a February 2016 contract signing for GTF engines to power VietJet's 63 newly ordered aircraft.

Falcon Aviation adds three more Leonardo AW169s to helicopter fleet

On the opening day of this year's Dubai Airshow, Falcon Aviation confirmed an order for three additional new Leonardo AW169 helicopters, in readiness to start a significant new offshore contract from early 2018. The new aircraft will bolster Falcon Aviation's fleet of the type to

DAE leases five Boeing 787-9 Dreamliners to Gulf Air



Mr. Khalifa Al Daboos, Managing Director of DAE and Captain Waleed Abdulhameed Al Alawi, Deputy Chief Executive Officer of Gulf Air sign the lease agreement for five Boeing 787-9 Dreamliners
Photo: DAE

DAE Capital, and Gulf Air, the Kingdom of Bahrain's national carrier, have signed an aircraft lease agreement for five Boeing 787-9 Dreamliner aircraft, that are scheduled to enter the carrier's fleet in 2018. These modern, fuel-efficient planes will help Gulf Air expand its network, facilitating the long-term expansion of its future network requirement.

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five. As a pioneer of the AW169 in the Middle East since 2016, Falcon Aviation has successfully logged 500 incident-free hours with the popular multi-role Class I Performance medium category helicopter, flying private charters and in fulfilling offshore contract with oil company TOTAL.

Emirates signs for 40 787-10 Dreamliners

Emirates, one of the world’s largest airlines, announced a commitment to purchase 40 787-10 Dreamliners at the 2017 Dubai Airshow. The deal, including airplanes and related equipment, is valued at US\$15.1bn at current list prices. Emirates is the world’s largest Boeing 777 operator and will be the first to receive the new 777X which will be in 2020. In selecting the 787-10, Emirates complements its 777 fleet with a medium twin-aisle airplane that offers 25% better fuel efficiency per seat and lower emissions than the airplanes it replaces.

SilkAir signs US\$1bn CFM Leap-1B engine support agreement

SilkAir has signed a 15-year Rate Per Flight Hour (RPFH) maintenance agreement with CFM International to support the LEAP-1B engines that will power its new fleet of 37 Boeing 737 MAX 8 aircraft. The agreement is valued at US\$1 billion at list price and includes a total of 80 engines. SilkAir, which is the regional wing of Singapore Airlines, took delivery of its first Boeing 737 MAX 8 airplane on September 27, 2017. Operations with the MAX aircraft began on October 5, 2017 with the first flight travelling to Penang, Malaysia. Deliveries of the remaining aircraft are scheduled through 2024. Based in Singapore, SilkAir currently operates a fleet of 17 CFM56-7B-powered Boeing Next-Generation 737 aircraft.

Azerbaijan Airlines grows 787 Dreamliner fleet from two to seven

Boeing and Azerbaijan Airlines (AZAL) have signed an order for five more 787-8 Dreamliners and a commitment to purchase two large freighters. The agreement is valued at about US\$1.9bn at current list prices. The freighter commitment will be finalized at a later time. Azerbaijan Airlines also announced it will be the launch customer for the 787 Landing Gear Exchange Program whereby Boeing Global Services will provide the carrier with a lower-cost solution for overhauled and certified landing gears for its Dreamliner fleet, which now grows to seven airplanes.

EgyptAir signs Letter of Intent with Bombardier for up to 24 CS300 aircraft



EgyptAir signs LOI for up to 24 CS300 aircraft

Photo: Bombardier

Bombardier has signed a letter of intent (LOI) for up to 24 CS300 aircraft with EgyptAir Holding Company, of Cairo. This includes 12 CS300 aircraft, with purchase rights for an additional 12 aircraft. Based on the list price of the CS300 airliner, a firm-order contract would be valued at approximately US\$1.1bn.

Wataniya Airways to add 25 A320neo Family aircraft



Wataniya Airways will add 25 A320neo Family aircraft under an agreement signed at the Dubai Airshow 2017
Photo: Airbus

Golden Falcon Aviation, the exclusive aircraft provider of Wataniya Airways, has signed a Memorandum of Understanding (MoU) for 25 Airbus A320neo Family aircraft. The agreement was signed at the Dubai Airshow 2017. Wataniya Airways resumed operations in July 2017 and currently operates a fleet of two A320neo aircraft, serving several destinations in the Middle East and Europe from its home base in Kuwait. The A320neo Family will contribute to the airline’s strategic vision to become the fastest growing and leading airline in the country.

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CFM sees record production in 2017

CFM International will achieve record production levels in 2017, with a planned rate of 1,800, to 1,900 engines by year end. At the same time, the company has logged near-record orders, with a total of 2,944 engines booked through October.

“It has been quite a year for CFM, and we’re not done yet,” said Gaël Méheust, President and CEO, CFM International. “The Supply Chain has already reached our 2018 planned rate of 20 LEAP engines per week and we have nearly completed implementation of our dual-source strategy. While all of that is going on, customers have continued to show their preference for CFM products, placing nearly 3,000 engine orders through October. We know that we need to deliver what we have promised and continue to earn that trust every day.”

In 2016, CFM delivered a total of 1,693 CFM56 engines and 77 LEAP engines as the company began the transition to the new product line. CFM is on track to deliver 1,400 CFM56 engines and more than 450 LEAP engines this year; LEAP production will double in 2018 to between 1,100 and 1,200 engines as part of the ramp-up that will eventually lead to the production of more than 2,000 LEAP engines per year by 2020.

CDB Aviation confirms order for 90 A320neo Family aircraft

Dublin based CDB Aviation Lease Finance DAC (CDB Aviation) has signed a firm order for 90 A320neo Family aircraft during the Dubai Airshow 2017. The agreement was reached in two steps: an original purchase agreement signed in 2014 for 45 A320neo Family aircraft, which remained undisclosed to date, and the firming up of the Memorandum of Understanding (MoU) announced at the 2017 Le Bourget Paris Airshow in June 2017 for an additional 30 A320neo and 15 A321neo aircraft.

Boeing, flydubai sign deal for 225 737 MAX airplanes

Boeing and flydubai have signed a landmark agreement for 225 737 MAX airplanes with a list price value of US\$27bn. The deal represents the largest-ever single-aisle jet order – by number of airplanes and total value – from a Middle East carrier. Signed at the 2017 Dubai Airshow in flydubai’s hometown, the agreement includes a commitment for 175 MAX airplanes, and purchase rights for 50 additional MAXs. When finalized, the purchase promises to sustain tens of thousands of jobs, directly and indirectly, for Boeing’s U.S. factories and network of suppliers.

Falcon Aviation expands its commitment to the H160



Falcon Aviation signs new MoU at the Dubai Airshow for three more H160s

Photo: Airbus

Falcon Aviation and Airbus Helicopters have signed a new MoU at the Dubai Airshow expanding their commitment to the H160, adding three additional helicopters to the original Letter Of Intent (LOI) signed in May 2016. The H160, with three prototypes now in flight testing, is currently preparing certification and entry into service in 2019. The helicopter’s final assembly line in Marignane, France is also in the final stages of preparation and will be ready to start serial production shortly. Customer support activities are being developed in parallel thanks to the extensive involvement of maintenance teams, through the operator zero campaign, using the prototypes and test means to check and improve the maintenance plan, digital work cards and technical documentation, and tooling, etc. ahead of actual operations. The first version to enter service in 2019 will be the passenger transport version – commercial air transport or Oil and Gas, followed by the emergency medical services (EMS) version, with the VIP version scheduled for 2021.

More than 50 of the first 175 airplanes will be 737 MAX 10s, the newest and largest member of the 737 MAX family. flydubai said the balance of the initial order will be made up of the popular MAX 8 and MAX 9 aircraft, giving the carrier a family of airplanes with high commonality and low operating costs. This new deal surpasses flydubai’s previous record order of 75 MAXs and 11 Next-Generation 737-800s, which was signed at the 2013 Dubai Airshow.

Silkair signs US\$1bn CFM LEAP-1B engine support agreement

SilkAir has signed a 15-year Rate Per Flight Hour (RPFH) maintenance agreement with CFM International to support the LEAP-1B engines that will power its new fleet of 37 Boeing 737 MAX 8 air-

craft. The agreement is valued at \$1 billion U.S. at list price and includes a total of 80 engines. SilkAir, which is the regional wing of Singapore Airlines, took delivery of its first Boeing 737 MAX 8 airplane on September 27, 2017. Operations with the MAX aircraft began on October 5, 2017 with the first flight travelling to Penang, Malaysia. Deliveries of the remaining aircraft are scheduled through to 2024.

Essex Aviation acquires Gulfstream G650 for NY-based client

Essex Aviation Group has successfully completed the acquisition of a pre-owned Gulfstream G650 for a private client in New York. Essex was retained by the client’s recently formed family office to provide on-going consultation services as

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well as for the acquisition of the G650 aircraft. Essex advised the client based on their desire to support their projected business and personal travel needs.

Gulf Air selects Honeywell's auxiliary power units for A320neo aircraft

Gulf Air and Honeywell have signed an agreement for the airline to purchase Honeywell auxiliary power units for its new fleet of 29 Airbus A320neo aircraft. Under the agreement, Honeywell will also provide maintenance, repair and overhaul services to help Gulf Air achieve greater cost predictability for future maintenance while reducing expenses when unexpected servicing is required.

Ethiopian Airlines orders GE90 engines for Boeing 777 Freighters

Ethiopian Airlines has ordered eight GE90-115B engines to power its four Boeing 777 Freighters. The engines will be added to an existing 12-year TrueChoice Flight Hour agreement for the maintenance, repair and overhaul of Ethiopian Airlines' GE90 engine fleet. The engine order and expanded services agreement are valued at more than US\$450m list price and over the life of the service agreement.

Air Sénégal orders two A330neo aircraft

Air Sénégal, the national carrier of Senegal, has signed a Memorandum of Understanding (MoU) for two A330neo aircraft, which is the new re-engined version of the A330 widebody airliner. The A330neo will benefit the airline's growth and business expansion in the future. The agreement makes Air Sénégal the first airline in Africa to select the A330neo.

Air Senegal will launch operations in 2018 and plans to use the A330neo to develop its medium- and long-haul network with the aircraft offering cutting-edge technology, along with more efficient operations.

Bombardier and Nordic Aviation Capital sign order for two new Q400 turboprops

Bombardier has concluded a firm purchase agreement for two new Q400 turboprops with Nordic Aviation Capital (NAC) signed in September 2017. NAC will lease these two Q400 aircraft to Jambojet, based in Nairobi, Kenya. With the

SCAT Airlines finalize order for Six 737 MAX 8s



Boeing and SCAT Airlines signed an order for six 737 MAX 8s on the final day of the 2017 Dubai Airshow
Photo: Boeing

Boeing and Kazakhstan-based SCAT Airlines announced an order for six 737 MAX 8s on the final day of the 2017 Dubai Airshow. The agreement, valued at US\$674m at current list prices, also includes purchase rights for five additional 737 MAX 8s. SCAT Airlines currently operates a fleet of 737s, 757s and 767s.

addition of these aircraft, NAC has increased its Q400 portfolio to 87 aircraft. Jambojet will now operate three Q400 aircraft on lease from two lessors. Based on the list price of the Q400 aircraft, the firm order is valued at approximately US\$64m.

Airbus lands largest-ever order with MoU signed for 430 A320 Family aircraft

Airbus and Indigo Partners have signed a Memorandum of Understanding (MoU) for the purchase of 430 A320 Family aircraft, comprising 273 A320neos and 157 A321neos, at a list price of US\$49.5bn. While the A320neo is listed at US\$108m and the larger A321neo at \$127m, the deal will have included the negotiation of a larger-than-usual discount. This deal is double the size of its previously largest order, 250 A320s for an Indian Budget airline.

Indigo Partners is a US-based private equity group that invests in airlines. The new jets will be divided among its Frontier Airlines, JetSMART, Volaris and Wizz Air carriers. One industry analyst commented that: "In essence Airbus has bundled up orders from four different airlines to give an impressive total. Separated out the market would be far more skeptical. Some of them are genuinely new but others are a repeat of existing orders and options from an investment

group almost no one had heard from before today." However, Airbus made it clear that the 430 aircraft are not included in previous order figures, with a spokesman adding: "These are all new aircraft and none of them are included in existing orders. We hope to formalize the MoU by the end of the year."

The timing of the announcement at the Dubai Airshow puts Airbus well ahead of its commercial rival, Boeing, as far as numbers of planes ordered, especially as an MoU was also signed between Airbus and Dublin-based lease company CDB for 90 A320neos. This now means that Airbus' current order book for A320s is approaching 6,000. However, this will also put extra pressure on suppliers who, in the past, have been responsible for hold-ups in the delivery of the aircraft, particularly as Airbus is looking to ramp-up production to 60 aircraft per month.

The news from the Dubai Airshow was not all good for Airbus. The company had been expecting a lifeline to be thrown to its struggling double-decker A380 program with confirmation of an anticipated order for over 30 of the type, only for the anticipated buyer to announce the signing of an MoU for 40 of Airbus' rival Boeing's 787 aircraft. Production of the A380 will be reduced to 8 per month in 2019.

MRO & PRODUCTION NEWS

Sichuan Airlines signs A350 XWB Flight Hour Services (FHS) components support

Sichuan Airlines, an all-Airbus-fleet airline based in Chengdu, has selected Airbus Flight Hour Services (FHS) and Airbus Real Time Health Monitoring Service (AiRTHM) to provide components and predictive maintenance support, securing the highest service level and operations for its new fleet of four A350 XWBs. Sichuan Airlines is to operate the A350 XWBs in the coming months on its international routes, including Chengdu to the USA. This long-term FHS-Components and AiRTHM agreement provides an extensive scope of A350 line replaceable units (LRUs) and APU, guaranteed spare parts availability through pool access service and on-site stock at customer main base, as well as component reliability management and maintenance. In addition, AiRTHM brings a proactive maintenance mode to A350 operations.

Honeywell to maintain aftermarket components for Emirates Airlines under 15-year agreement

Honeywell has signed a 15-year Component Service Solutions agreement with Dubai-based Emirates to maintain aftermarket components on the airline's fleet of Airbus A380 and Boeing 777 aircraft. The technology used in this agreement extends through 2031 and covers comprehensive component repairs and support solutions for Emirates' fleet, thus reducing grounded aircraft time. Honeywell's strengths in the areas of component exchange and repairs will help Emirates benefit from a strong level of support and expertise, thereby reducing disruptions to operations due to component repairs. Honeywell's services are designed to reduce maintenance costs, lower cost of ownership, and provide the highest possible fleet reliability. Aircraft components manufactured, supported and repaired by Honeywell include avionics and mechanical parts.

Honeywell and LHT create largest maintenance, repair and overhaul capability for Airbus A350 fleets

Honeywell has signed Lufthansa Technik as a licensed component repair center and exclusive global asset provider for all Honeywell components and the HGT 1700 APU on Airbus A350 aircraft. Under the agreement, Lufthansa Technik will offer A350 operators around the world an unequalled experience with maintenance, repair and overhaul services for all Honeywell components, including auxiliary power units. Since the A350's entry into service in late 2014, Lufthansa

Lufthansa Technik Component Services expands workshop in Tulsa



Lufthansa Technik Component Services expands workshop in Tulsa

Photo: LTCS

Lufthansa Technik Component Services (LTCS) has substantially expanded its workshop in Tulsa, Oklahoma. On November 13, the Lufthansa Technik subsidiary officially started operation of the new component shop. Providing a shop floor area of 10,700 m² (115,000 ft²), the facility has doubled in size. Additional capabilities and an enhanced logistics network in the region further increase the performance and service portfolio of the company. For Lufthansa Technik the portfolio expansion is a major increase of its footprint in the Americas. In view of the capability expansion and the focus on increasing Boeing 737 capabilities, the number of employees is expected to rise as well. Lufthansa Technik Component Services today employs close to 600 employees at its eight locations throughout North America. Numerous changes have also been implemented to secure the supply chain in the region, including the establishment of new processes. Complementing the workshop expansion, Lufthansa Technik has also opened a new regional office in Miami, Florida, in October. The office employs about 150 employees, with corporate sales and other commercial and operational services, such as a 24/7 AOG desk and material trading, being co-located here. By combining the different product divisions under one roof in the region, Lufthansa Technik ensures a more aligned and efficient market approach.

Technik has had two years of operational experience managing six in-service A350 fleets with more than 50 in-service aircraft. The new agreement extends Honeywell's longstanding relationship with Lufthansa Technik as a Honeywell-licensed repair facility for mechanical, avionic components and hydro-mechanical units, and demonstrates its commitment to reduce aircraft downtime, providing faster turnaround and getting aircraft back in service.

CL Aerospace gains EASA approval for new, SLA Battery

C&L Aerospace, in partnership with Securaplane

Technologies, a Meggitt PLC Company, has received EASA approval for the Securaplane Sealed Lead Acid (SLA) Batteries for Saab 340 aircraft. In August, both companies announced the battery's Supplemental Type Certificate (STC) and its FAA approval. Now with EASA approval, the battery can be installed on Saab 340 Aircraft registered in Europe. In conjunction with the STC, Securaplane and C&L have entered into an agreement that designates C&L as the worldwide Saab 340 Securaplane SLA Mainship battery distributor. The non-hazardous SLA batteries are maintenance-free, can directly replace existing Ni-cad batteries, offer superior hot and cold weather performance and the ability to recover from deep discharge.

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Lufthansa Technik to equip Boeing 747-8 with Ka-broadband Internet

Lufthansa Technik has been appointed by an undisclosed customer to equip several Boeing 747-8 aircraft with the new broadband Internet solution in the Ka-band frequency range from 2018 onwards. Lufthansa Technik is currently equipping the Airbus A320 Family of the Lufthansa Group with the latest Ka-band satellite technology. In addition, Lufthansa Technik has Supplemental Type Certificates (STC) for the Airbus A330/A340 Family and the Boeing 737 Family. Lufthansa Technik also holds the STC for all Boeing Business Jets BBJ1 (737-700) and BBJ2 (737-800) for the self-developed antenna radome TIOS (Two-In-One-Solution), which also enables the use of Ka-band and therefore optimum high-speed Internet and TV connections on board. The STC proves that subsequent modifications to the aircraft comply with the valid design regulations of the responsible aviation authorities. Future customers, whether airlines or operators of VIP aircraft, will benefit from these additional type certificates, especially in terms of costs and aircraft ground time.

GE Additive unveils first BETA machine from its Project Atlas program

GE Additive has unveiled the first BETA machine developed as part of its Project A.T.L.A.S program. The meter-class, laser powder-bed fusion machine has been developed to provide manufacturers of large parts and components with a scalable solution that can be configured and customized to their own specific industry applications. Project A.T.L.A.S (Additive Technology Large Area System) is GE Additive's company-wide program to develop the next-generation large additive machines. This first BETA machine was developed in just nine months and complements the company's existing portfolio of products. Ideally suited to industries that require large complex metal parts, such as aviation, automotive, space and oil and gas industries, the new BETA machine builds on technology previously developed by GE, combined with Concept Laser's expertise in laser additive machines. The first few BETA machines are currently being evaluated by a small group of customers and more will be available for delivery in 2018. "Irrespective of industry, every customer has its own specific needs and its own unique levels of complexity. We regularly hear that next-generation machines need to be customizable and configurable. The new meter-class machine we're debuting at formnext is our response to that feedback – a solution that is scalable and cus-

flyadeal and Lufthansa Technik sign comprehensive engineering services contract



flyadeal and LHT sign aircraft engineering services contract

Photo: LHT

Saudi-Arabia's low-cost airline flyadeal, and Lufthansa Technik have signed a comprehensive aircraft engineering services contract. The contract will run over four years and will cover the complete flyadeal A320 fleet. One of the major components of the agreement is the set-up of a new maintenance control center. This will include a full Continuing Airworthiness Management Organization (CAMO) and aircraft engineering support from Lufthansa Technik. Lufthansa Technik will also organize troubleshooting and will help flyadeal to establish an optimized maintenance program which allows highly efficient operations resulting from an optimized maintenance schedule.

tomizable and meets the needs of our industry, as it matures," said Mohammad Ehteshami Vice President and General Manager, GE Additive.

Airbus' and Etihad Airways Engineering's joint A380 MRO Services offering commences operations in Abu Dhabi

Work is starting on the first A380 "six-year" C-check for a third-party customer airline at Airbus' and Etihad Airways Engineering's joint A380 MRO Services offering in Abu Dhabi. The aircraft, A380 MSN072, belonging to Lufthansa, arrived at the end of October, and following an initial inspection phase, is getting ready to undergo the heavy check at Etihad's state-of-the-art heavy maintenance facility. The extensive work scope, which includes major structural checks and incorporation of the mandatory Service Bulletins, is supported by an onsite Airbus technical advisory team. First agreed last year, this joint services collaboration materializes Etihad Airways Engineering's recently announced membership of the international "Airbus MRO Alliance", while for airlines it establishes OEM-backed third-party A380 maintenance, engineering and embodi-

ment capabilities in Abu Dhabi, delivering efficient turnkey solutions under one roof. During the actual heavy maintenance visit, Airbus Customer Services provides technical advisory, logistical support and planning optimization managed by a dedicated on-site expert team, allowing minimized downtime of the aircraft.

NORDAM and China Airlines announce joint venture

NORDAM and China Airlines have signed a joint venture agreement to establish NORDAM Asia Limited, a company to repair and overhaul structural aircraft components for the China Airlines fleet and for other airlines in the Asia-Pacific region. For NORDAM, the partnership brings a consistent baseload of work from China Airlines and its affiliates, which include Tigerair Taiwan and Mandarin Airlines, while affording proximity to regional customers as a strategic objective of the company's maintenance, repair and overhaul business in the Asia-Pacific region. For China Airlines, the flag carrier and largest airline of the Republic of China (Taiwan), the agreement in-sources control of critical competencies while upgrading

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proficiencies; reduces labor and transportation costs; expands its share of the third-party maintenance, repair and overhaul market; and promotes development of the aviation and aerospace sector in Taiwan.

NORDAM Asia Limited will also leverage the China Airlines Cargo freighter network for freight-cost advantages and China Airlines status to pursue more economical raw-material purchases and spare-parts pricing, and will benefit from NORDAM's industry alliances and existing network of sales representatives in Asia Pacific.

AEI receives order for three additional MD-83SF freighter conversions for Aeronaves T.S.M.

Aeronautical Engineers (AEI) has signed a contract to provide Mexico-based Aeronaves T.S.M (TSM) with three additional MD-83SF freighter conversions. The first MD-83 aircraft (MSN 53293) will commence modification on December 11, followed by the second MD-83 (MSN 53292) commencing modification in February of 2018 and then followed by the third MD-83 (MSN 49941) starting modification in late April, 2018. All the AEI MD-83SF modifications will be performed by Commercial Jet's Miami, Florida facility.

StandardAero teams with GDC ME and Horizon Shield to provide MRO services in Saudi Arabia

StandardAero has entered into an exclusive teaming agreement with GDC Middle East (GDC ME) and Horizon Shield Corporation of Riyadh to provide MRO services, engineering support, and design services for military aircraft operators in the Kingdom of Saudi Arabia. The three-year teaming agreement will initially cover government-owned rotorcraft for the Saudi Navy, Air Force and Land Forces. Commenting on the teaming agreement, Simon Jones, President of StandardAero/Vector Global Services, said: "Saudi Vision 2030 is built around three themes:

a vibrant society, a thriving economy and an ambitious nation. Vector is extremely pleased to extend its decades-long history of providing reliable aviation services to Saudi Arabia. By teaming with leading high-quality service providers such as GDC ME and Horizon, we are confident of achieving incremental growth for all three firms, while also helping to meet the ambitious goals of Saudi Vision 2030."

Turkish Technic and SAEI consolidate maintenance partnership

Turkish Technic and SAEI (Saudia Aerospace Engineering Industries) have signed a Memorandum of Understanding (MOU) during the Dubai Airshow. The agreement expands the support and maintenance solutions in the field of component service which forms the basis to pursue a longer-term business partnership between both companies in support of their customers' fleet operations in the Kingdom of Saudi Arabia and surrounding market. Under the terms of the MOU, the companies cooperate in component maintenance and component pool services, and improving the partnership through working together for warehouse and logistics services. CEO of Turkish Technic, Ahmet Karaman, said: "The Middle East region is extremely important for us. Extending cooperation with the SAEI fits perfectly Turkish Technic's global strategy for increasing customer services and widening its network."

AES Global gains GCAA Design Organisation Approval

Aerospace Engineering Solutions (AES), a UK-based aerospace design and certification organisation, has gained General Civil Aviation Authority (GCAA) Design Organisation Approval (DOA) from the United Arab Emirates (UAE). The approval demonstrates that AES complies with all regulatory requirements for accomplishing and approving Supplemental Type Certificates (STC) and minor modifications on UAE-registered aircraft and compliments the European Aviation Safety Agency (EASA) Part 21J Design Organisation Approval already held by the company. Receiving the GCAA Design

Organisation Approval enables UAE registered aircraft access to the company's catalogue of over 2,000 approved major and minor changes.

Oakenhurst Aircraft Services announce new Galley Support Programme

Oakenhurst Aircraft Services has announced its new Galley Support Programme. An extensive capability list now covers; Sell, B/E Aerospace, Inventum, Monogram, Zodiac, Herman, Ipeco and Rumbold. Full MRO requirements are carried out from within a dedicated Galley Division, which provides the necessary test environment to simulate operating conditions. Service Bulletin and Mod Kit embodiment can be accomplished, alongside all Test, Repair and Overhaul tasks.

BA CityFlyer selects AerFin's Beyond Pool to support Embraer E-Jet fleet

AerFin has signed a seven-year agreement to support BA CityFlyer's fleet of 20 Embraer E-Jets via its "Beyond Pool" support program. "Beyond Pool" offers a fixed cost solution for all of BA CityFlyer's E-Jet component requirements and will be fully supported out of AerFin's London Gatwick facility. BA CityFlyer is a wholly owned subsidiary of British Airways and part of the International Airlines Group (IAG). IAG opened a competitive tender and conducted a very detailed overview of AerFin in its search for both a quality support solution and a competitive price point. This solution provides supply certainty to BA CityFlyer, reducing the operating cost of its E-Jet fleet, while maintaining high-quality engineering. BA CityFlyer operates from eight UK airports to over 30 European destinations per year, so proximity of support and reliability of a 24/7 AOG service were key factors in choosing the right supplier.

MAEL adds Trent 900 engines to Airbus A380 Line Maintenance capability

Monarch Aircraft Engineering has extended its line maintenance capabilities by gaining Airbus

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MRO & PRODUCTION NEWS

A380 Rolls-Royce Trent 900 engine approval. The new addition to MAEL's capabilities has been approved by the Civil Aviation Authority (CAA) and has been added to the Part 145 approvals. This allows MAEL to provide line maintenance support for operators with Airbus A380 Trent 900 engines at Birmingham Airport.

SAFAIR signed GE's TrueChoice overhaul agreement for CFM56 engines

SAFAIR OPERATIONS has signed a five-year, TrueChoice overhaul agreement with GE Aviation for the maintenance, repair and overhaul of its CFM56-7B engines that power its Boeing 737-800 aircraft.

Jet Aviation gains EN9110 certification and other maintenance approvals in Dubai

Jet Aviation's maintenance facility in Dubai has been awarded EN9110 certification following an independent audit. The company has also gained EASA, FAA and GCCA approvals for the Airbus Corporate Jet (ACJ) family, as well as EASA approval for the Bombardier Global BD700 series. In recognition of the development, implementation and continuous improvement of quality management systems, Jet Aviation's maintenance facility in Dubai recently received EN9110 certification that was confirmed by an independent auditor. Coupled with the EASA, FAA and GCCA approvals, the company secures its ACJ Service Centre Network (SCN) status. With these approvals, the company is authorized to support 24-month inspections for the ACJ family and EASA and FAA-registered Global BD700 series.

OEMServices extends component support services with Singapore Airlines

OEMServices and Singapore Airlines have extended the A380 component support services agreement. The agreement provides comprehensive 24/7 component support from OEMServices' main A380 regional pool based at Singapore's Changi Airport. OEMServices' Original Integrated Services (OIS) division launched operations ten-years ago in Singapore and will further accompany Singapore Airlines in its need for greater proximity and reactivity thanks to a new 600m² warehouse located at 21, Changi North Rise in Singapore.

FINANCIAL NEWS

Locatory.com reports record growth for 2017

This October, the online aircraft spare parts and repair capabilities marketplace Locatory.com has announced hitting record highs and increasing the company's sales by 20%. Moreover, the company has managed to achieve such results with half the sales force of 2016. Having analyzed its quarterly results, the Locatory.com management team concluded that the last trimester has been the quarter with the best sales in the entire company's history. The unprecedented growth was largely driven by the introduction of a renewed pricing strategy, more flexible payment solutions, and highly optimized in-house processes. This allowed the company to significantly raise its operational efficiency and reduce the need for extensive human resources. In addition to the aforementioned business optimization processes, during the

year Locatory.com presented the market with a wide range of new online tools and products, thus securing the company several large-scale projects and a 15 percent increase in customer base.

GE Additive acquires GeonX to strengthen software simulation capabilities

GE Additive has acquired GeonX, a privately-owned developer of simulation software. Terms of the deal are not being disclosed. Headquartered in Belgium, GeonX provides software for engineers when developing new products, to simulate additive manufacturing, welding, machining and heat treatment processes in various industries such as aerospace, automotive and energy. GeonX's simulation software tool, Virfac[®] (short for Virtual Factory), assesses products prior to production; predicting defects, distortions and stresses and the impact manufacturing has on a product's durability. This helps to reduce the number of prototypes built during the development phase, while improving the quality and lifetime of the manufactured products. This can minimize the time to market and development costs. For many years, GE has been a leading end user and innovator in the additive manufacturing space. In addition to the US\$1.4bn investment in Concept Laser and Arcam, GE has also invested approximately US\$1.5bn in manufacturing and additive technologies over the past 10 years, developed additive applications across all GE businesses, created new services applications across the company, and earned hundreds of patents in material science. In 2016, the company established GE Additive to become a leading supplier of additive technology, materials and services for industries and businesses worldwide.



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PASSENGER STATISTICS - OCTOBER

- **UAL's** October 2017 consolidated traffic increased 1.7% and consolidated capacity increased 3.4% versus October 2016. UAL's October 2017 consolidated load factor decreased 1.3 points to 81.1% compared to October 2016.
- **GOL Linhas Aereas Inteligentes** reported that traffic in October 2017 increased 8.1%, while capacity rose 1.9% year-over-year. Load factor for October 2017 was up 4.6 points to 80.6% over the same period of 2016.
- **Spirit Airlines** reported its preliminary traffic results for October 2017. Traffic in October increased 21.6% versus October 2016 on a capacity increase of 21.2%. Load factor for October 2017 was 83.2%, an increase of 0.3 points compared to October 2016.

FINANCIAL NEWS

Island Air ceases operations after filing for Chapter 11 bankruptcy

After filing for Chapter 11 bankruptcy protection last month, as of November 11, Hawaii's Island Air has ceased all operations. Following last Friday's flights, all airplanes were grounded and any passengers who had booked flights from November onwards were advised to make alternative arrangements. Island Air was responsible for operating over 400 flights per week between Oahu, Maui, Kauai and Hawaii Island. Island Air filed for Chapter 11 bankruptcy as a consequence of threats of legal action made by aircraft lessors, who will now look to repossess these planes. Despite a substantial expansion plan and replacement of the existing fleet of ATR-72s with Q400 turboprop aircraft, 17 successive quarters without making a profit took its toll. In the first quarter of 2017 operating costs increased by 44 percent compared to the first quarter of 2016, while revenue doubled. However, a loss of US\$8.2 million in the second quarter of this year, its largest loss since the last quarter of 2014 brought matters to a head. The airline has had several owners over recent years, including PacifiCap LLC, who purchased the airline in February 2016 from Ohana Airline Holdings, a company controlled by Oracle CEO Larry Ellison.

OTHER NEWS

Africa World Airlines (AWA), a new Ghanaian airline headquartered in Accra, has selected OASES from **Commsoft** to support its fleet of six Embraer EMB-145 aircraft. This is the thirteenth new OASES contract signed in the first half of 2017, covering the aviation engineering activities of fifteen direct customers in twelve different countries – and further strengthens Commsoft's footprint in Africa. Communications Software's OASES (Open Aviation Strategic Engineering System) is among the most successful aviation engineering and maintenance systems in the world. A 'best of breed' MRO IT system, designed by engineers for engineers, OASES is easy to use whilst being functionally highly sophisticated. It is structured in a modular format to allow for scalability and AWA has chosen the Core, Airworthiness, Planning, Materials, Line Maintenance Control, Production, Commercial and Warranty modules.

Royal Jordanian Airlines has chosen **Honeywell's** GoDirect Fuel Efficiency software. The airline will see the technology deployed on its fleet of 24 aircraft to help it reduce fuel usage and ultimately save on costs. Fuel expenditure can account for as much as 40% of an airline's annual operating costs. The offering from Honeywell uses data analysis, reporting and monitoring tools to identify fuel-saving opportunities and to help configure the aircraft to take advantage of potential saving initiatives.

GE Aviation and **flydubai** have reached an agreement for GE to provide Intelligent Network software for efficient recovery of disruptions across the airline's fleet of Boeing 737 aircraft. "Airline disruptions occur every day, but it's how you handle them that sets you apart," said John Mansfield, Vice President & Chief Digital Officer, GE Aviation. "Intelligent Network software as a service gives flydubai the real-time tools to predict the impact of operational disruptions, to optimize recovery back to normal operations, and to minimize the effect on their passengers." As a result of customer collaboration, flydubai and GE Aviation launched one of the first digital customer solutions built on GE's Predix platform in June 2016.

WestJet, Air France and **KLM** have reported the redemption phase of their reciprocal frequent flyer agreement. Flying Blue Miles can now be redeemed for WestJet flights, and WestJet dollars can now be redeemed for flights within the Air France and KLM global network. The announcement comes on the heels of the airlines' successful launch of the earn phase of the reciprocal frequent flyer agreement and further complements their long-standing codeshare cooperation.

Saudi Arabian Airlines (SAUDIA) and **Panasonic Avionics Corporation (Panasonic)** have announced a new 35-aircraft commitment for inflight entertainment across the carrier's short-haul fleet. The carrier has selected Panasonic's X Series entertainment solutions,



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OTHER NEWS

specifically the company's eXO and eX1 systems, for installation on its various fleets. Panasonic's X Series inflight entertainment solutions feature the industry's largest selection of options including HD monitors, capacitive touch handsets, in-seat power, and ensures a premium experience in every cabin class. Saudia has also selected Panasonic's eXO overhead entertainment system to be line-fit installed across 20 Airbus A320neos and 15 A321neos that the airline has on order. This builds on the carrier's previous commitment in April 2016 when it selected eXO for 30 Airbus A320neo aircraft. This news follows an earlier order from SAUDIA in which Panasonic will install its eX1 IFE system across the airline's existing fleet of 7 A320 aircraft.

One of the world's largest air carriers is the first to select **Honeywell's** Aircraft Data Gateway solution to quicken the transfer of data to and from an aircraft — regardless of the aircraft's location. The carrier selected Honeywell's solution to save time from the traditional data transfer methods, which use multiple data-loading or interface units. Now one affordable, lightweight device opens up a world of capabilities for the connected aircraft. Designed specifically for airlines, Aircraft Data Gateway-300 (ADG-300) is a single, compact unit that replaces multiple data-loading or interface units. Honeywell's solution will help the customer manage real-time aircraft loading status, and eliminate the need to produce and distribute software and database media disks. The ADG-300 will reduce the customer's data-loading times by up to 50%, thereby improving fleet operations and aircraft availability. The ADG-300 merges



Air Transat unveils new livery as it marks its 30th anniversary

Photo: Air Transat

Canadian leisure airline **Air Transat** has unveiled a new livery as the carrier marks its 30th anniversary. The new look was unveiled on November 13, at Air Transat's facilities at Montréal-Trudeau airport. The first aircraft with the new livery — an Air Transat Airbus A330 — will touch down in the UK for the first time on the morning of Friday November 17. Air Transat flies year-round from London Gatwick, Manchester and Glasgow to destinations across Canada, including Toronto, Montreal, Vancouver and Calgary, and offers a summer service from Dublin.

with electronic flight bags and pilot tablets, so flight crews can easily install the solution. By creating a way to wirelessly transfer data to and from an aircraft at any time, Honeywell's

solution allows pilots and ground personnel to instantly access the aircraft's performance data and operational status. In addition to the simplification and ease in collecting

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OTHER NEWS

and managing data, Aircraft Data Gateway enables Connected Aircraft services such as Honeywell's GoDirect™ Connected Loading, GoDirect Connected Maintenance, GoDirect Weather and more to help the carrier further improve operational efficiency.

CTT Systems AB, a market leader in aircraft humidity control systems, has received Zonal Drying™ airline orders for a total of 15 **Airbus A321** aircraft to be retrofitted from December 2017 to June 2018. The Zonal Drying™ system removes trapped water in blankets, keeps the crown area dry, and prevents unwanted excess weight from water accumulation – phenomena which can affect all passenger-carrying aircraft. Consequently, airlines can operate with lower energy needs and reduced pollutant emissions for every flight. A lowered excess aircraft weight of 200 kg reduces block fuel consumption by around 0.4%, resulting in fuel savings of approx. 25,000 liters per year per aircraft, cutting carbon dioxide emissions by more than 65 tons. Additional cost savings come from lower repair costs of moisture-related damage to electrical components and equipment, repair/replacement of blankets, and reduced downtime due to electrical failures.

Last week the Council of the **International Civil Aviation Organization (ICAO)** has established the first **Global Aviation Security Plan (GASeP)** and the **International Air Transport Association (IATA)** is urging swift uptake. According to Alexandre de Juniac, IATA's Director General and CEO, "Flying is secure, but it is also clear that aviation faces security challenges. GASeP has the potential to strengthen security globally by providing governments with a global plan to which they can align their national efforts. The critical factor is implementation. It must be quick, comprehensive and global. The industry congratulates ICAO and its member states for putting the plan together. Industry is ready to support its swift implementation."

De Juniac added: "Governments have the primary responsibility for the security of their citizens—including when they are flying. But differences in the capacity of governments to do this are clear. The implementation of Annex 17 SARPs is far from universal. Focused efforts will be needed to foster cooperation and capacity-building to enable states to meet their obligations," ICAO's standards and recommended practices (SARPs) for aviation security are contained in Annex 17 of the Chicago Convention. GASeP creates a framework for states to incorporate Annex 17 responsibilities into their national

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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

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civil aviation security programs in four focus areas: (1) risk awareness and response, (2) security culture, (3) technology enhancement and innovation, (4) security oversight and cooperation among states and with local organizations. If comprehensively implemented, GASeP will address four key elements to improve security that de Juniac outlined in a keynote address to the IATA AVSEC World Conference in Abu Dhabi:

- Closer government-to-government cooperation to eliminate the long-term challenges of extraterritorial measures,
- The universal application of global standards,
- Better information-sharing among governments and with industry, and
- The efficient implementation of new and existing technology capabilities.

INDUSTRY PEOPLE

- Air Partner, the global aviation services group, has appointed **Robert Jubb** as Freight Trading Manager. Jubb is based at Air Partner's UK headquarters at Gatwick, London, and will report directly to **Mike Hill**, Director of Freight. Jubb has over 13 years of experience in the charter brokerage, airline and time-critical logistics industries. He was previously Commercial Director at AirX Charter and spent eight years at another competitor from 2008 to 2016 in a number of roles, including Commercial Manager.

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Commercial Jet Aircraft

| Aircraft Type | Company | Engine | MSN | Year | Available | Sale / Lease | Contact | Email | Phone |
|---------------|------------------------------|--------------|-------------|----------|-----------|--------------|---------------------------|------------------------------------|-------------------|
| 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 |
| 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 |
| B737-400 | 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 |
| B737-400 | Aersale | CFM56-3C1 | 25417 | 1991 | 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 | Aersale | CFM56-7B26 | 32917 | 2002 | Q1/2018 | Sale / Lease | Sally Browne | Sally.Browne@aersale.com | +353 86 021 4841 |
| B737-800 | Aersale | CFM56-7B26 | 32624 | 2001 | Q1/2018 | 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 |
| B747-400BCF | 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-700 | Regional One | CF34-8C5B1 | 10246 | 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 |
| CRJ-900LR | Regional One | CF34-8C5 | 15057 | 2005 | 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 |
|-----------------|-------------------------|-----------|--------|------|-----------|--------------|--------------|------------------------------|--------------------------|
| DASH8-102 | Magellan Aviation Group | PW121 | 113 | 1988 | Now | Sale / Lease | Bill Polyi | bill.polyi@magellangroup.net | +1 (704) 504 9204 x202 |
| DASH8-311 | Regional One | PW123B | 323 | 1992 | Now | Sale / Lease | Chris Furlan | cfurlan@regionalone.com | -1(305) 759-0670 Ext.164 |
| DASH8-311 | Regional One | PW123B | 325 | 1992 | Now | Sale / Lease | Chris Furlan | cfurlan@regionalone.com | -1(305) 759-0670 Ext.164 |
| 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 | 123 | | 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 |
| SF340B | Jet Midwest | CT7-9B | 320 | 1992 | Now | Sale / Lease | Kevin Lee | aircraft@jetmidwest.com | +1-310-652-0296 |

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) CF34-10E6 | Now - Lease | Engine Lease Finance | Declan Madigan | declan.madigan@elfc.com | +353 61 291717 |
| (1) CF34-10E7 | Now - Lease | | | | |
| CF34-8E(s) | Now - Sale / Lease | GECAS Engine Leasing | Sherry Riley | engine.leasing@gecas.com | +1 (513) 782-4272 |
| (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 | Castlelake | Stuart MacGregor | stuart.macgregor@castlelake.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 | Now - Sale / Lease | Royal Aero | Calum MacLeod | calum@royal aero.com | +49 8025 993610 |
| (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) CFM56-7B26/E | Now - Lease | Engine Lease Finance | Declan Madigan | declan.madigan@elfc.com | +353 61 291717 |
| (1) CFM56-7B26/3 | Now - Lease | | | | |
| (1) CFM56-5B6/3 | 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 | | | | |
| (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@werner aero.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 |
| (2) PW127E/F | | | Remi Krys | rkrys@logix.aero | +33.6.2079.1039 |
| (4) PW127M | | | | | |
| (1) PW120 / PW121 | Now - Sale / Lease | Royal Aero | Calum MacLeod | calum@royalaero.com | +49 8025 993610 |
| 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 | Castelake | Stuart MacGregor | stuart.macgregor@castelake.com | +44 207 190 6138 |
| (1) PW4168A-1D | Now - 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 - Sale/Lease/Exch. | Werner Aero Services | Cliff Topham | ctopham@wernerero.com | +1-703-402-7430 |

Aircraft and Engine Parts, Components and Misc. Equipment

| Description | | Company | Contact | Email | Phone |
|--|------------------------|------------------------------|----------------------|-----------------------------------|-------------------|
| (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, GTCP331-200/250, | | | Rich Lewsley | rlsley@logix.aero | +44.79.0021.8657 |
| APS3200, APS2300, GTCP85-129H | | | | | |
| 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 | | National Aero Stands | | support@stands.aero | + 1 305-558-8973 |
| / CFM56/ PW2000 & Bootstrap kits | | | | | |
| GTCP131-9A, GTCP 131-9B | Now - Sale / Lease | Werner Aero Services | Julien Levy | jlevy@Wernerero.com | +1 201-674-9999 |
| 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 |