

Weekly Aviation Headline News

WORLD NEWS

Atlas Air expands 747 services for NCA

Atlas Air has expanded its strategic agreement with Nippon Cargo Airlines (NCA) to add three NCA-owned Boeing 747-400 Freighters to the existing operation, bringing the total number of 747-400Fs operated on behalf of NCA to five. The incremental aircraft will be operated on key routes across the fast-growing transpacific market, and are scheduled to enter service in April, July and September 2019.

AirAsia X and Unilode extend ULD management partnership

AirAsia X, the long-haul affiliate of AirAsia, and Unilode Aviation Solutions, the global provider of outsourced Unit Load Device (ULD) management and repair solutions, have extended their ULD management agreement until 2023, for the second time in their ten-year partnership.

Frontier kicks off 2019 with 22 new routes

U.S low-fare carrier Frontier Airlines kicked off the new year in style, announcing the addition of 22 new non-stop routes from Raleigh-Durham International Airport (RDU), McCarran International Airport (LAS), Philadelphia International Airport (PHL) and Orlando International Airport (MCO). Service will begin in spring 2019. "With the addition of these 22 new routes, Frontier has added its 106th city, Boston, and increased service in 19 other cities across our network," said Daniel Shurz, Senior Vice President, Commercial for Frontier Airlines. "We continue to make air travel more accessible and affordable for Americans. We look forward to making it easier for people to fly, and for people to fly more often."



Two-weekly services will bring perishables closer to Asia.

Photo: LATAM Cargo

LATAM Cargo adds Chicago Santiago link

While boosting salmon trade to Asia

LATAM Cargo announced a new cargo route between Santiago de Chile and Chicago to begin operations on February 19, making this city the company's sixth destination in the United States.

Due to Chicago's strategic connectivity to Asia, with this new route the company expects to offer a better product to its customers in this destination by expediting service, reducing transit times to less than 35 hours, improving temperature control and decreasing cargo exposure.

Chile is the largest salmon exporter in the region, with a steadily increasing demand from the Asian

market in recent years. While in 2014 an average of 37 tons were transported between both markets each week, in 2018 this figure rose to approximately 700 tons per week, on average.

much shorter time until the final destination", said Claudio Torres, LATAM Cargo's Commercial Director - South America.

In Chicago, LATAM Cargo's facilities will include 465 square meters of cold storage, which may be expanded if necessary, to minimize cargo exposure while in transit.

The return route will be Chicago-

Miami, thus improving service to customers in the Midwestern United States by reducing transit time to Latin America by up to 3 days. This will result in shorter connection time and more expeditious shipping.

"We know the Asian market will be a strategic focus in the development of Chilean aquaculture."

Claudio Torres, LATAM Cargo's Commercial Director - South America

"We know the Asian market will be a strategic focus in the development of Chilean aquaculture. At LATAM Cargo, we are committed to our customers and we are well aware of the importance of the Asian market for them. This new route will allow us to offer a better service with a

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As part of its international product portfolio, LATAM Cargo offers PERISHABLE-SALMON, which has been especially designed to transport this product under strict exposure control. It is available across the LATAM Cargo network on both cargo planes and passenger airliners. With this new route, the product will have 6 points of entry into the United States and 3 connection points on its way to Asia.

LATAM Cargo also plans to increase its weekly capacity to carry salmon to Asia by 100 additional tonnes, thus matching the transportation time of the main Asian carriers.

“The ongoing expansion of our network is proof of our permanent commitment to our customers. We are optimistic about this new route to Chicago and will continue considering

new alternatives to improve their experience,” commented Andrés Bianchi, CEO of LATAM Cargo.

In 2018, LATAM Cargo opened 32 routes, five of which provide cargo-only service. The trend will continue in 2019, with Santiago-Chicago being the first new route of the year served by cargo aircraft.

AIRCRAFT & ENGINE NEWS

Vallair sells V2500-A5 engine to Sojitz Aerospace for part-out

Vallair, the mature aircraft and engine asset specialist, has closed the sale of a V2500-A5 engine to Sojitz Aerospace. The engine was previously flying on MSN974, an Airbus A321 which Vallair purchased from AerCap and leased to Onur Air. The run-out engine will now be dismantled for Sojitz Aerospace. Vallair continue to lease the airframe only to Onur Air. The engine was delivered to Sojitz Aerospace in December and forms part of an ongoing partnership which has seen Vallair sell three engines for disassembly into the Sojitz Aerospace parts pool with more in the pipeline for 2019. The V2500 engine type is installed on half of Vallair’s A321 fleet, and unserviceable or run-out engines currently transition to third party shops for repair to support the fleet ongoing, or get sold for tear down.

GOAL introduces additional three A321neo aircraft to fleet for KGAL investors

GOAL German Operating Aircraft Leasing GmbH & Co. KG (GOAL) has arranged, through Irish leasing companies, purchase and lease transactions for three Airbus A321neo aircraft with

InterGlobe Aviation Limited (IndiGo). The first aircraft delivery took place on December 28, 2018 and the other two aircraft are scheduled for delivery at the beginning of 2019. The A321neo is the first aircraft of its type which will

be placed into funds for German institutional investors which have been initiated by KGAL. The underlying operating leases will be managed by GOAL. The KGAL Group is a leading independent investment and asset manager with an invest-

Orders and deliveries – Boeing and Airbus

Airbus v Boeing: Orders and Deliveries					
December 2018 YTD					
	Airbus		Boeing		
Type	Orders	Deliveries	Type	Orders	Deliveries
A220	135	20	737	675	580
A320 Family	541	626	747	18	6
A330	27	49	767	40	27
A350	40	93	777	51	48
A380	4	12	787	109	145
Total	747	800	Total	893	806

Source: Airbus

Source: Boeing

Boeing saw December 2018 orders tally up to 218 including a significant number of 737 MAX’s for undisclosed customers. Deliveries during the month reached 102 aircraft. For December, Airbus has not publishing who ordered which aircraft, it is unclear who has contributed to a year-end increase in orders during December. However, the aircraft OEM reports that it delivered 800 commercial aircraft to 93 customers in 2018, meeting its full year delivery guidance and setting a new company record. Deliveries were 11% higher than the previous record of 718 units, set in 2017.

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ment volume of €22.7 billion (US\$26 billion). The investments focus on long-term capital investments for institutional investors in the real estate, infrastructure and aircraft asset classes. The Group, founded 50 years ago, operates across Europe and has its registered office in Gruenwald, near Munich.

Air Lease Corporation activity update for fourth quarter 2018

Air Lease Corporation has announced an update on activity taking place in the fourth quarter of 2018: As of December 31, 2018, ALC's fleet comprised 275 owned aircraft and 61 managed aircraft, with commitments to acquire a total of 372 new aircraft for delivery through 2024. ALC has delivered 12 new aircraft including 3 Boeing 737 MAX 8s, 2 Boeing 787-9s, 4 Airbus A321neos, 2 Airbus A321ceos and 1 Airbus A330-900neo. The majority of this quarter's order book deliveries occurred throughout the second half of the quarter. Air Lease Corporation sold two aircraft to Thunderbolt Aircraft Lease Limited II, one aircraft to Blackbird Capital II and two aircraft to third-party buyers. "Our business continues to perform well. As to the timing of deliveries and aircraft sales, one new aircraft delivery moved into the first quarter of 2019, as did a few of the aircraft sales to Thunderbolt II. We expect to complete the sale of the remaining six aircraft to Thunderbolt II in 2019," said Gregory B. Willis, Executive Vice President and Chief Financial Officer.

AerCap leased, purchased and sold 436 aircraft in 2018

AerCap Holdings N.V. has announced its major business transactions during the fourth quarter and the full year 2018. AirCap signed lease agreements for 257 aircraft and purchased 76 aircraft during 2018. The company executed sale transactions for 103 aircraft and signed financing transactions for US\$6.9 billion. During the fourth quarter 2018, AerCap signed lease agreements for 72 aircraft, including 8 wide-body aircraft and 64 narrow-body aircraft and purchased 37 aircraft, including 26 Airbus A320neo Family aircraft, 2 Airbus A350s, 3 Boeing 737 MAX 8s, 5 Boeing 787s and 1 Embraer E2. The company executed sale transactions for 36 aircraft, including 14 Airbus A320 Family aircraft, 2 Airbus A330s, 6 Boeing 737NGs, 1 Boeing 737 Classic, 1 Boeing 757, 2 Boeing 777-200ERs and 1 Boeing 777-300 from AerCap's owned portfolio, and 9 Airbus A320 Family aircraft from AerCap's managed portfolio. During the fourth quarter AerCap signed financing transactions for US\$500 million.

Boeing's Transonic Truss-Braced Wing Unveiled



Boeing revealed the newest Transonic Truss-Braced Wing (TTBW)

Photo: Boeing

Boeing has unveiled its latest model of the Transonic Truss-Braced Wing (TTBW) concept which has been designed to offer unprecedented aerodynamic efficiency while flying at a speed of Mach 0.8. The previous model had been designed to fly at speeds between Mach 0.7 and 0.75. This improvement has come through the presence of a truss to support the extended ultra-thin folding wing which measures 170 feet from end to end. According to Boeing, to increase the aircraft's cruise speed, the new concept now has an optimized truss and a modified wing sweep. By adjusting the wing sweep angle, the truss can carry lift more efficiently. The end result is a more integrated design that significantly improves vehicle performance. For approaching ten years Boeing has been working with NASA on this concept as part of the Subsonic Ultra Green Aircraft Research Program, while more recently it has been performing extensive wind tunnel research at NASA's Ames Research Center. The research focuses on concepts that reduce noise and emissions while enhancing performance.

NAC signs agreement to lease four Embraer E190 aircraft to Helvetic Airways



Helvetic Airways

Photo: AirTeamImages

Nordic Aviation Capital (NAC) has committed to lease four Embraer E190's to Helvetic Airways, the first of which is due to deliver in February 2019. NAC are delighted to welcome Helvetic Airways as a new customer. "We are very proud to welcome Helvetic Airways as our newest customer," said Martin Møller, Chairman of Nordic Aviation Capital, "We look forward to building and strengthening our relationship with them in the future." Helvetic Airways is a Swiss airline based at Zurich Airport. Established in 2003, the entirely Swiss airline offers European destinations in the short- and medium-haul sectors and also operates from Bern-Belp airport.

Safran to power the Bell Nexus



The Bell Nexus

Photo: Bell

The first application of the Safran Hybrid-Electric Propulsion System (HEPS), the Bell Nexus, has been officially unveiled at the Consumer Electronics Show (CES) in Las Vegas. The propulsion solution of this multi-rotor vertical take-off and landing (VTOL) aircraft is capable of producing more than 600 kWe of power. During ground tests last June, the system produced 100 kWe and further tests will be carried out next year. “This partnership with Bell in the on-demand mobility sector is a strategic opportunity for Safran” said Jean-Baptiste Jarin, Safran Helicopter Engines Vice President, Hybrid Propulsion System Program. “Nexus is the first of a new breed of aircraft, it opens the doors to new markets and new missions. Fully committed to these challenges and sharing a common vision with Bell, we now look forward to seeing it fly”. HEPS works by distributing thermal and/or electrical energy, depending on the phase of flight, to multiple rotors. It comprises three sub-systems: electric generation that relies on a turbo-generator and batteries, electric power management, and the electric motors that generate lift and propulsion. Hybrid-electric propulsion solutions being explored by Safran teams are the most efficient way to enable multi-rotor VTOL aircraft to meet future safety, emission and affordability standards.

Eagle Services Asia inducts first Pratt & Whitney GTF™ engine

Pratt & Whitney’s Singapore engine center, Eagle Services Asia (ESA), a member in the global network of maintenance, repair and overhaul (MRO) facilities that service Pratt & Whitney GTF engines, has inducted its first PW1100G-JM engine for overhaul. Eagle Services Asia is a joint venture between SIA Engineering Company and Pratt & Whitney. “The Singapore engine center is now fully enabled to overhaul several engine models simultaneously, including the PW1100G-JM geared turbofan engine. ESA has invested nearly US\$85 million to upgrade and modernize the facility to perform GTF MRO, which includes training employees and acquiring new tooling, advanced capabilities and machinery,” said Brendon McWilliam, Senior Director, After-market Operations – Asia-Pacific, Pratt & Whitney. “ESA’s new GTF and GP7200 engine capabilities join its established support of the existing PW4000 engine fleet. Modifications to the facility will improve productivity, reduce set up time and boost efficiency across operations. Current PW4000 engine customers will also benefit from these efficiencies,” McWilliam adds. The facility is uniquely modernized and re-purposed to handle multiple, simultaneous engine overhaul lines for Pratt & Whitney and Engine Alliance engine models – the PW4000



Eagle Services Asia inducts first Pratt & Whitney GTF™ engine

Photo: P&W

family, PW1100G-JM, and GP7200 engines, respectively. ESA also re-configured its engine test capability to accommodate the new GTF engine model. Engine Alliance LLC is a joint venture of Pratt & Whitney and General Electric.

AIRCRAFT & ENGINE NEWS

Rolls-Royce and Avolon sign LifeKey agreement

Rolls-Royce has announced Avolon as a new customer for LifeKey, its pioneering asset management offering, available exclusively to its LessorCare customers. LifeKey is a central component of LessorCare, which was launched a year ago offering a single, comprehensive agreement for all Trent engine types. LessorCare provides faster and easier access to lessor services, offers the incorporation of services today and for the future, and maximizes possible return on investment. Rolls-Royce has signed LessorCare contracts with 14 customers, covering almost half of its leased wide-body fleet. Enhancing and replacing the Operating lessor Engine Restoration Agreement (OPERA), LifeKey complements LessorCare by offering unique improvements in terms of greater visibility, accessibility, portability and liquidity. Rolls-Royce expects to bring all lessors using the existing OPERA (Operating Lessor Engine Restoration Agreement) mechanism over to LifeKey, which is only available as part of LessorCare.

MRO & PRODUCTION NEWS

Eirtech composite repair approval extended to Belfast facility

Eirtech Aviation Services, headquartered in Shannon Airport, Co. Clare has extended its EASA Approved Part 145 Maintenance Organisation Approval Certificate (IE.145.074) to include its Composite Repair Centre at Unit 8-10 Pinebank, Queens Road, Belfast, Northern Ireland. Eirtech Aviation Services can now perform composite repair at the Belfast facility in accordance with capability listing MOE 1.9 and also issue an EASA Form 1 on site. Eirtech Aviation Services' Part 145 Approved Maintenance Organisation offers composite repair on C6, C8 & C20 Rating Components including slats, flaps, spoilers, ailerons, elevators, wing-to-body fairings, engine fan cowls, thrust reversers and overhead bins on the following aircraft types - B737, B757, B767, B777, and A320 & A330-Series aircraft.

HAECO Privat Jet Solutions signs collaboration agreement with Eight Partnership

HAECO Private Jet Solutions (HAECO PJS), HAECO Group's private jet cabin completion specialist, has entered into a collaboration agreement on private jet cabin designs with Eight Partnership (Eight), one of Asia's leading design firms, with a diverse portfolio in luxury markets, including ultra-high-end hospitality and luxury residential real estate in the region. The scope of the collaboration is to jointly develop conceptual and in-

Delta Air Lines orders additional 15 Airbus A220 aircraft



Delta orders 15 additional A220 aircraft

Photo: Airbus

Delta Air Lines has ordered 15 additional A220 aircraft, bringing to 90 the total number of the new-generation, highly fuel-efficient jetliners the world's second-largest airline has on order. The additional orders are the airline's first for the A220-300 model. Delta also converted earlier A220 orders to the larger -300, bringing to 50 the number of A220-300s on order. Delta placed its initial order for 75 aircraft in 2016. Airbus will produce the A220-300s at a new U.S. assembly facility in Mobile, Alabama. Construction of the plant, to be located adjacent to the existing Airbus A320 assembly facility, will begin later in January.

ATR and Aurigny confirm order for three ATR 72-600s



Photo: © ATR

ATR and Aurigny have confirmed the acquisition of three ATR 72-600 aircraft, following approval from the States of Guernsey and after the initial signature of a Letter of Intent at the Farnborough Airshow, in July 2018. The first aircraft will be delivered in August 2019 and all three will be equipped with the new ClearVision™ Enhanced Vision System (EVS), with

Aurigny the launch customer for this cutting-edge technology. ClearVision™ uses an external camera to display an augmented outside-view in real-time to a head-mounted visor, worn by the pilot with the EVS improving the pilot's vision significantly. This is a major change for Aurigny's crew as Guernsey's location in the English Channel sees its flight operations regularly affected by fog, leading to disruptions for passengers. A study showed that an ATR equipped with the ClearVision™ EVS could save 50% of the disrupted landings in Guernsey over the period of a year. ClearVision™ will also enhance operations into other destinations served by Aurigny.

MRO & PRODUCTION NEWS

dustrial cabin designs for private jets. Together, the partners will deliver bespoke, luxurious and sophisticated cabins for esteemed private jet owners. HAECO PJS is the first and only Airbus-approved and Boeing-licensed cabin completion center in Asia Pacific. It offers a complete range of solutions from industrial design, engineering design and certification, to cabin completion.

Braathens Regional Airlines starts optimal fleet management with ATR Global Maintenance agreement

The Swedish airline Braathens Regional Airlines, BRA, started the implementation of its new ATR Global Maintenance Agreement on January 1, following the signature of this milestone agreement with ATR in June 2018 that further strengthens the strong relationship between the two companies. Covering Braathens Regional Airlines entire ATR fleet of ten ATR 72-600s, this customized full-service package covers repair, overhaul and pooling services of Line Replaceable Units (LRUs), and transportation of LRUs to the airline’s facilities. The contract is for a period of five years. After the commissioning of the GMA for the Braathens Regional Airlines ATR fleet, Christian Clemens, the CEO of Braathens Regional Airlines, declared: “With a large fleet of ATRs, we must be able to benefit from the most suitable services, with responsiveness and efficiency, in order to best operate our aircraft. The launch of this Global Maintenance Agreement signed with ATR is one step further in the bonds of trust that unite us.”

FINANCIAL NEWS

Luton, U.K.-based Monarch Aircraft Engineering Collapses

Monarch Aircraft Engineering Limited (MAEL), following in the footsteps of fellow Greybull-owned enterprise, Monarch Airlines, has gone into administration. According to the liquidators KPMG, MAEL is “unsustainable in its present form,” and who also confirmed that attempts to restructure the firm had failed. Monarch Airlines collapsed in 2017 with the loss of 1,800 jobs, leading to the cancellation of holidays for over 860,000 people.

Commenting on the situation, KPMG restructuring partner David Pike said that: “Following the administration of other Monarch entities in 2017, MAEL sought to build its customer base to replace the loss of business from the former airline. “Through the insolvency of the airline however, the company inherited significant debts and claims. Every effort has been made to turn around the business, including launching a

C&L Aviation Group signs service agreement with Embraer Netherlands



ERJ 145

Photo: C&L Aviation Group

C&L Aviation Services, a C&L Aviation Group company, has signed an Aircraft Maintenance Service Agreement with Embraer Netherlands (ENL) (which is responsible for the asset management of the Embraer commercial aircraft portfolio), to perform heavy maintenance, interior refurbishment, paint, and other services on the pre-flown ERJ 135/145 aircraft which they refurbish and remarket to their operator customers. C&L expanded into the ERJ 135/145 market two years ago and now offers a full range of services from maintenance and inspections, aircraft painting and interior refurbishment, to teardowns and aircraft records management. C&L also provides parts support, power-by-the-hour programs, component repair services and aircraft transactions for the ERJ 135 and ERJ 145 aircraft.

CVA which sought to resolve these legacy debts. “Unfortunately, following the CVA, a number of customers reduced or sought to terminate their relationship with MAEL, further adversely impacting the business.” The Unite union has accused Greybull of failing to discuss the impending failure of the company with MAEL employees and will be seeking legal redress. Unite regional officer Paul Bouch, said: “This is terrible news and a terrible way to start the new year for a group of highly skilled workers. Unite will be offering our maximum support to help those affected by this announcement. “Unite will also be seeking an urgent meeting with the administrators KPMG and launching legal action on behalf of our members for compensation over a failure to consult.” Founded in 1967, MAEL employed about 579 staff across Europe and provided aircraft maintenance services across four main divisions – base maintenance, line maintenance, fleet technical support and a training academy.

Safran share buyback program

On May 24, 2017 Safran announced its intention to implement a €2.3 billion ordinary share

buyback program to run over the two years following completion of the tender offer for Zodiac Aerospace shares. To date, Safran has already contributed 11.4 million shares to its program for a total of €1.22 billion. On January 10, Safran entered into an agreement with an investment service provider for a follow-on repurchase tranche. According to this agreement, Safran will acquire up to €600 million worth of ordinary shares no later than May 10, 2019. The average price per share will be determined based on the mean volume-weighted market price observed during the entire duration of the agreement. The unit price may not exceed the maximum of €140 per share set by the November 27, 2018 shareholders’ meeting. (€1.00 = US\$1.15 at time of publication.)

Finnair completes repurchase of own shares

Finnair has completed the repurchase of its own shares, which started on December 5, 2018 and ended on January 10, 2019. During that time, Finnair acquired a total of 600,000 of its own shares for an average price of EUR 7.08

FINANCIAL NEWS

(US\$8.14) per share. The shares were acquired in public trading on Nasdaq Helsinki Ltd. at the market price prevailing at the time of purchase. The repurchased shares were acquired on the basis of the authorization given by the Annual General Meeting on March 20, 2018 and shall be used as a part of the Company's incentive programs. Following the repurchase, Finnair Plc holds a total of 797,008 of its own shares, corresponding to 0.62% of the total number of shares.

Woodward reports fiscal year 2018 results

Woodward has reported financial results for its fiscal year 2018 and fourth quarter ending September 30, 2018. Net sales were US\$719 million for the fourth quarter of 2018, an increase of 19% from the fourth quarter of last year. Organic net sales, which exclude sales of US\$78 million attributable to the acquired L'Orange business, were US\$641 million, an increase of 6% from the prior year fourth quarter. Net earnings were US\$75 million and adjusted net earnings were US\$89 million, compared to US\$62 million for the fourth quarter of the prior year. Adjusted EBIT was US\$120 million, compared to US\$93 million for the prior year fourth quarter. Net sales were US\$2.33 billion for fiscal year 2018, an increase of 11% compared to the prior year. Organic net sales, which exclude sales of US\$103 million attributable to the acquired L'Orange business, were US\$2.22 billion, an increase of 6% compared to the prior year. Net earnings were US\$180 million and adjusted net earnings were US\$246 million compared to US\$201 million for the prior year. Adjusted EBIT was US\$326 million, compared to US\$278 million for the prior year. Net cash provided by operating activities for 2018 was US\$299 million, compared to US\$308 million for the prior year. Free cash flow was US\$172 million for 2018, compared to US\$215 million for the prior year.

STS Aviation Group selects Greenbriar Equity Group as new equity partner

STS Aviation Group, a leading global aviation solutions company, has selected Greenbriar Equity Group, L.P. (Greenbriar), a New York-based private investment firm, as its new equity partner. STS provides a range of solutions to the global aviation industry, including component sales and distribution, workforce management, engineering services, line maintenance, and aircraft repair and modifications. The company is well-known for its breadth of capabilities and customer-centric approach to helping airlines and aircraft operators meet their critical operational and people requirements worldwide.

Virgin Atlantic and Stobart to buy U.K.'s Flybe for massively discounted £2.2m



Flybe

Photo: AirTeamImages

A consortium comprising Virgin Atlantic, the infrastructure Stobart Group and investment firm Cyrus has agreed to buy ailing U.K. regional carrier Flybe for 1p per share against a closing price of 16.4p per share, representing an equity value of £2.2 million compared to Thursday's closing market capitalization of £26 million. The new consortium will be called Connect Airways and Flybe will now adopt the Virgin Atlantic brand. The deal will see an initial £20 million bridging loan provided to ensure the continued smooth operating of the company, followed by a further investment of £80 million. Currently, Flybe has debts of £99 million. The carrier is the U.K.'s largest regional airline, operating 55% of its domestic flights outside of London. Connect Airways will be 40 per cent owned by DLP Holdings, which belongs to funds managed by Cyrus; 30 per cent by Stobart Aviation; and 30 per cent by Virgin Travel Group, part of Virgin Atlantic. Connect Airways will also acquire Stobart Air, the group's regional airline and aircraft leasing business. According to the new consortium, combining Flybe and Stobart with Virgin would "create a fully-fledged UK network carrier under the Virgin Atlantic brand", with an "enhanced presence" at Heathrow and Manchester airports. In the takeover announcement, the consortium advised credit-card businesses had been keeping cash from future Flybe bookings for their own security instead of passing it on, "and this change in position has materially and rapidly weakened the company's unrestricted cash position." (£1.00 = US\$1.27 at time of publication.)

MILITARY AND DEFENCE

U.S. Air Force accepts first Boeing KC-46A Pegasus tanker aircraft

The U.S. Air Force has accepted the first Boeing KC-46A Pegasus tanker aircraft, setting the stage for the aircraft's delivery to McConnell Air Force Base, in Wichita, Kan., in the coming weeks. During extensive flight testing, six KC-46s completed more than 3,800 flight hours and offloaded more than four million pounds of fuel to A-10, B-52, C-17, KC-10, KC-135, KC-46, F-15E, F-16 and F/A-

18 aircraft. The Pegasus has been rigorously tested throughout all aspects of the refueling envelope and in all conditions, including day, night and covert. With the signing of what's known as the DD250 paperwork, the delivery activities can proceed. McConnell Air Force Base will receive the first four KC-46 aircraft, all of which are ready for delivery, with four subsequent aircraft destined for Oklahoma's Altus Air Force Base, beginning as early as next month. Boeing is on contract for 52 of an expected 179 tankers for the Air Force. Beyond the first aircraft that was accepted today, nine aircraft are undergoing

MILITARY AND DEFENCE

customer acceptance testing with the remaining aircraft of the contracted amount in production.

OGMA receives first of twelve Brazilian Air Force C-130 aircraft for Full Fleet Support Program

The first of twelve Brazilian Air Force C-130 aircraft for a Full Fleet Support Program arrived January 3, to OGMA's facilities, in Alverca, Portugal. This is the first step of several that will be taken during the next five years regarding fleet management and logistics support for the Brazilian Air Force's C-130 fleet. This contract includes fleet management, logistics support, maintenance checks, repair and replacement of equipment, and supply of components. The scope of this agreement includes aircraft operated by the Brazilian Air Force, based in Rio de Janeiro: eight C-130H aircraft, two C-130H2 aircraft (with aerial firefighting equipment) and two KC-130H aircraft (air refueling aircraft). OGMA overcame stiff competition in an international tender promoted by the Brazilian Aeronautical Commission, based in Washington (USA). The contract has a representative value of about €85 million (US\$98 million) for OGMA and will last for five years.

INFORMATION TECHNOLOGY

In 2018, **Swiss-AS** welcomed 12 new customers to the AMOS Community, amongst them **Ural Airlines, Kuwait Airways, LIAT, Bamboo Airways, Lufthansa German Airlines** and **Air Tahiti Nui**. Though the new customers have different backgrounds, ranging from start-ups, CAMO organizations up to MRO providers and established airlines, they have all chosen AMOS as their perfect fit. With the offer of four different AMOS editions, airlines, airline groups, CAMO organizations and MRO providers of all sizes can individually select the AMOS edition that best supports their business scope. With Lufthansa German Airlines joining the AMOS Community, Swiss-AS now equips all carriers in the Lufthansa Group with AMOS. One highlight of the year was the AMOS Customer Conference that took place in October in Lucerne, Switzerland. Over 250 delegates attended the conference with customers and partners representing 92 companies from all over the world. The goal of the event was to facilitate networking and exchange of experience within the AMOS Community as well as to inform attendees about the latest AMOS developments and the enriched service portfolio.

Indonesian Air Force places order for eight additional H225Ms



The Indonesian Air Force has ordered eight additional twin-engine multirole H225M helicopters Photo: Airbus Helicopters

The Indonesian Air Force has ordered eight additional twin-engine multirole H225M helicopters as part of the country's fleet-strengthening initiative for a combat search and rescue-capable fleet. Under the agreement between the Indonesian Ministry of Defence and PT Dirgantara Indonesia (Persero) (PTDI), the 11-ton combat-proven helicopters will be delivered to the air force upon reassembly and completion of the mission equipment outfitting and customization by PTDI at its facility in Bandung, Indonesia. These additional helicopters will join the air force's existing fleet of six H225Ms to perform similar combat search and rescue missions. Airbus Helicopters and Indonesia have an enduring relationship of over 40 years dating back to 1976 when PTDI first obtained a license to produce the NBO-105 helicopter. Specifically on the H225, PTDI became a key supplier of the helicopter's rear fuselage and main airframe in 2008, with full production in place in Indonesia by 2011. The two companies expanded the industrial co-operation in 2017, to include support and services dedicated for the Indonesian military fleet of helicopters.

RUAG to modernize eight Swiss Air Force transport helicopters



Cougar helicopter from the Swiss Air Force Photo: RUAG

RUAG will upgrade eight Cougar helicopters belonging to the Swiss Air Force's transport helicopter fleet. The corresponding agreement was signed in December by representatives of the Federal Office for Defence Procurement (armasuisse) and RUAG in Bern. RUAG is set to upgrade the Cougar helicopters with state-of-the-art technology at its facilities in Emmen by mid-2022. Procured in 1998, the helicopters' electronic flight control, navigation and communication systems require extensive modernization. The full scope of the upgrade includes new flight management computers, a precision navigation system for instrument flights, a collision avoidance system which alerts pilots to aircraft in critical proximity, and a system developed by RUAG which emits an audible signal when the rotorcraft leaves a defined flight level. The package also features helmet-mounted displays for projecting the most important flight data onto the pilot's visor, as well as the latest generation of radio equipment and satellite phones for ensuring safe and efficient communication. RUAG will also equip the helicopters with the latest IDAS-3 self-defense system. This system alerts the crew to radar, laser and electro-optical waves, as well as missiles. It also issues countermeasures, such as dispensing decoys. In addition to the upgrade, RUAG is also tasked with conducting a full overhaul on the helicopters. The Cougar specialists at RUAG plan to disassemble the transport helicopters, check the relevant parts for wear and damage, and repair or replace parts as necessary.

PASSENGER STATISTICS - DECEMBER

- **United Airlines (UAL)** has reported December 2018 operational results. UAL's December 2018 consolidated traffic increased 6.9% and consolidated capacity increased 6.4% versus December 2017. UAL's December 2018 consolidated load factor increased 0.4 points to 82.7% compared to December 2017.
- **WestJet** has posted December 2018 traffic results with a load factor of 82.8%, a decrease of 0.8 points year over year. Traffic increased 3.4% year over year, while capacity grew 4.5% over the same period. WestJet welcomed an additional 57,000 guests in December, a year over year increase of 2.7%.
- In December, **Finnair** carried 1,033,300 passengers, 8.6% more than in the corresponding period of 2017. The overall capacity increased in December by 11.1%. Finnair's traffic increased by 5.5% and the passenger load factor (PLF) decreased year-on-year by 4.0 points to 76.4%.
- **Southwest Airlines** has reported its December 2018 preliminary traffic statistics. The Company flew 11.1 billion revenue passenger miles in December 2018, an increase of 3.3% from December 2017. Capacity increased 5.4% in December 2018 and the load factor was 81.6%, compared with 83.3% in December 2017.
- **International Airlines Group** traffic in December 2018 increased by 8.8% versus 2017, while Group capacity rose by 9.4%. Group load factor was 80.4%, compared to 80.8% in December 2017. In 2018 IAG carried almost 113 million passengers, which is over 8 million more than in 2017.
- **Norwegian** has reported its highest ever passenger figures in a single year with more than 37 million passengers and a load factor of 86% in 2018. December 2018 was also characterized by passenger growth as Norwegian carried 2,402,005 passengers, up 15% from the same month the previous year. Capacity was up 34% and traffic increased 24% compared to December 2017. The load factor was 78.6%, down 6.0 points compared to the previous year.
- **Delta** has reported operating performance for December 2018. The company carried a record 15.3 million customers in the month of December and an annual record 192 million passengers across its broad global network in 2018. Total traffic in December increased 5.4% compared to the previous year, while total load factor was flat at 84.2%. Total capacity increased 5.4% compared to December 2017.

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The Government of Brazil has approved the strategic partnership between **Embraer** and **Boeing**, that will position both companies to accelerate growth in global aerospace markets. The government's approval comes after the two companies last month approved terms for the joint venture that will be made up of the commercial aircraft and services operations of Embraer. Boeing will hold an 80% ownership stake in the new company and Embraer will hold the remaining 20%. The companies have also agreed to the terms of another joint venture to promote and develop new markets for the multi-mission medium airlift KC-390. Under the terms of this proposed partnership, Embraer will own a 51% stake in the joint venture, with Boeing owning the remaining 49%. Once Embraer's Board of Directors ratifies its prior approval, the two companies will then execute definitive transaction documents. The closing of the transaction will be subject to shareholder and regulatory approvals and customary closing conditions. Assuming the approvals are received in a timely manner, the transaction is intended to close by the end of 2019.

After the chaos caused by drone sightings at **London Gatwick Airport** between December 19 and December 21 last year, both **London Heathrow** and London Gatwick Airport have invested heavily in military-grade anti-drone equipment to ensure that further levels of

disruption from the presence or suspected presence of drones can be avoided. There were sightings of drones over the three days at London Gatwick, the chief constable of Sussex police, Giles York, confirming that officers had received 115 reports of sightings in the area, including 93 that had been confirmed as coming from "credible people" including a pilot and airport staff. As a consequence of the disruption, around 140,000 passengers were affected as approximately 1,000 flights were canceled. At the time, to enable Gatwick to become operable again, the Israeli-developed Drone Dome system, which can detect and jam communications between a drone and its operator, was deployed. While spokespersons for both London Gatwick and Heathrow Airports have confirmed that state-of-the-art military-grade anti drone systems have been installed, no further details of the specific type have been revealed. Many other airports in the U.K. are now investigating the opportunity to install similar, but smaller anti-drone systems. It is believed that the cost of the new anti-drone systems at the U.K.'s two largest airports cost £5m (US\$6.2m) per installation. A spokeswoman for Heathrow airport said: "The safety of our passengers and colleagues remains our top priority. Working closely with relevant authorities including the Met police, we are constantly looking at the best technologies that help remove the threat of drones."

The **International Air Transport Association (IATA)** has released data figures for the month of November 2018, revealing that demand

in terms of freight (metric tonne kilometers (FTKs)) was flat (0%) compared to November 2017, following 31 unbroken months of year-on-year increases. For the ninth month in a row, the rise in freight capacity growth, measured in available freight tonne kilometers (AFTKs), outstripped demand by 4.3% year-on-year. At a time when international e-commerce sees continued growth, air freight demand has hit some turbulence with signs of weakness in global economic activity, all nations other than the U.S experiencing a contraction in export order books, reduced supplier delivery times in Asia and Europe, and weaker consumer confidence when compared to the beginning of 2018.

"Normally the fourth quarter is a peak season for air cargo. So essentially flat growth in November is a big disappointment. While our outlook is for 3.7% demand growth in 2019, downside risks are mounting. Trade tensions are cause for great concern. We need governments to focus on enabling growth through trade, not barricading their borders through punitive tariffs," said Alexandre de Juniac, IATA's Director General and CEO.

North America, Middle East and Latin America reported year-on-year demand growth, while **Asia Pacific, Europe and Africa** all contracted.

Asia-Pacific airlines saw demand for air freight shrink by 2.3% year-on-year compared to 2017. Capacity increased by 3.1%.

North American airlines posted the fastest growth of any region for the second consecutive month with an increase in demand of 3.1% compared to the same period a year

OTHER NEWS

earlier. Capacity increased by 6.3%.

European airlines experienced a contraction in freight demand of -0.2% compared to the same period a year earlier. Capacity increased by 3.1% year-on-year.

Middle Eastern airlines' freight volumes expanded 1.7% compared to November 2017. Capacity increased by 7.8% over the same period.

Latin American airlines' freight demand rose 3.1% compared to the same period in 2017. Capacity increased by 2.0%. International year-to-date demand increased 6.3%.

African carriers saw freight demand decrease by 7.8% compared to the same month in 2017. This was the eighth time in nine months that demand contracted. Capacity shrank 7.4% year-on-year. Seasonally-adjusted international freight volumes are 7% lower than their peak in mid-2017, though still 28% higher than their most recent trough in late-2015.

Norwegian is upgrading the passenger experience for long-haul customers with the introduction of inflight Wi-Fi on its growing long-haul fleet of aircraft. Norwegian customers flying between Europe, USA, South America and Asia will be able to stay connected in the skies with the rollout of free and premium high-speed Wi-Fi connectivity on the carrier's Boeing 787-9 Dreamliner and 737 MAX aircraft. The first connected Norwegian Boeing 787-9 Dreamliner, featuring American author Mark Twain on the tailfin, was delivered on December 18, 2018. The new aircraft has entered service and this milestone marks the first time Norwegian passengers can experience free inflight Wi-Fi for the full duration of long-haul flights. More than 50% of Norwegian's 787-9 Dreamliner fleet is expected to offer in-flight connectivity by 2020. The rollout of Wi-Fi on the airline's Boeing 737 MAX aircraft will commence from mid-January 2019.

Qatar Airways Cargo has commenced freighter services to Guadalajara, Mexico, expanding its network in the Americas region. The new destination is being served by the airline's Boeing 777 freighter. Guadalajara has been added as a new destination on the cargo carrier's high demand transpacific freighter route, commencing January 6, 2019. The twice-weekly freighter service departs directly from Macau to Los Angeles in North America and connects onward to Mexico City, arriving in Guadalajara, before departing for Doha via Liège. Guadalajara is the capital and largest city of the Mexican State of Jalisco. It

In 2018, the airlines of the **Lufthansa Group** carried a total of 142 million passengers, setting a new passenger record. With more than 1.2 million flights and a seat load factor of 81.4%, the aircraft load factor was higher than ever before. The growth drivers for the network airlines were the Zurich hub and the Munich and Vienna hubs, with passenger growth of 9.5%, 9.3% and 8.5% respectively. The number of passengers at the Frankfurt hub grew by 4.7% in 2018. **Eurowings** also contributed to Lufthansa Group's new passenger record in 2018 with growth of 18%. In December, the freight capacity was 4.7% higher than in the previous year and the tonne-kilometers sold 0.4% higher. This results in a payload factor of 66.1%, which is 2.8 percentage points lower. In 2018, total freight capacity was 4.3% higher than in the previous year. At the same time, sales increased by 0.8% in this period. At 66.4%, the load factor was 2.3 percentage points lower than in the previous year. In December 2018, the airlines of the Lufthansa Group welcomed around 10 million passengers on board their aircraft. This corresponds to an increase of 6.9% over the same month last year. The number of seat-kilometers offered was 11% up on the previous year, while sales increased by 10.6%. This results in a seat load factor of 78.5%, 0.3 percentage points lower than in December 2017.



Lufthansa Group Airlines

Photo: Lufthansa



TAG Aviation UK receives renewed accreditation to the Wyvern Wingman Standard safety program Photo: TAG Aviation

TAG Aviation (UK) has successfully received renewed accreditation to the **Wyvern Wingman** Standard safety program following a rigorous on-site safety audit conducted by Wyvern. The Wingman Standard is globally acknowledged as the industry's benchmark in aviation safety and reflects a commitment to current aviation best practice and the highest level of safety and protocol. Wingman-certified operators must successfully pass a Wingman audit which demands transparency with respect to safety records, operational history and operating procedures, pilot experience, established training practices and a close evaluation of critical programs such as the Safety Management System and Emergency Response Plan. Safety is one of TAG Aviation's core values and successful completion of the Wingman Standard audit is an assurance to customers, industry partners and employees of the on-going commitment to maintain the highest standards at all times. "We are proud to have had our prestigious Wyvern Wingman status renewed. It is a hugely important endorsement within the business aviation industry and underpins our investment in providing best-in-class service and operations", said Patricia Davis, Head of Compliance and Safety, TAG (UK).

OTHER NEWS

has the third-largest economy and industrial infrastructure in Mexico. Major exports on the flights consist of perishables and general cargo, while general cargo will form the majority of imports. 2018 has been highly successful for Qatar Airways Cargo with cargo volumes increasing by 10% in 2018 compared to 2017. Exports grew by 14% and transshipments increased by 12% over the previous year. The carrier's products have also performed exceptionally well with positive tonnage growth and the introduction of several enhancements to its products, such as the rollout of the automated mail management system across its network that greatly benefits customers of postal mail and e-commerce. In addition to launching freighter services to Macau and commencing transpacific freighter services, the carrier added belly-hold cargo capacity to several key destinations and also received two brand new Boeing 777 freighters as part of its expansion strategy. Qatar Airways Cargo has operated more than 300 charters carrying products ranging from racehorses, cattle, pharmaceuticals, perishables, garments and cars.



Photo: AirTeamImages

The German airline **Germania** is in financial trouble. There is a short-term need for liquidity according to a press release distributed on January 3. In order to resolve this problem, Germania is examining several financing options. Germania has provided several reasons for the problems – massive increases in kerosene prices in the summer with a simultaneous depreciation of the euro against the U.S. dollar and a delay in the provision of aircraft. According to Germania, the question now is how to assert itself as a medium-sized company in a market dominated by large corporations. There are no restrictions on flight operations; all Germania flights continue as scheduled.

INDUSTRY PEOPLE



Daron Dryer

- With the upcoming delivery of its first wide-body completion and the arrival of the first Boeing BBJ MAX and Airbus ACJ neo in Indianapolis this winter, Comlux Completion has announced the following organizational and operational changes.

Daron Dryer is promoted to Chief Executive Officer, Comlux Completion as of January 1, 2019, taking over **Scott Meyer's** duties. Dryer has over 20 years' experience within the aviation industry. He joined Comlux in 2009 as Director of Engineering and was promoted to Chief Operating Officer in 2017. He has successfully integrated a technology and research center within Comlux, developing in-house innovative solutions for the VIP cabin outfitting industry. Scott Meyer is appointed Executive Vice President, Comlux Group. Meyer has been with Comlux Completion virtually since the inception of the company. He started his career at Comlux in 2009 as VP Engineering. In March 2014 he was appointed Chief Operating Officer and since early 2015 has held

the position of Chief Executive Officer, Comlux Completion.

- **Robert Clare**, Director of Sales for Universal Avionics (UA), has announced that **Ms. Kim Stephenson** has been appointed to the position of Regional Sales Manager, Canada. Stephenson is based in Grand Rapids, Michigan USA and joins UA with over 20 years of experience in the aviation industry. Before joining UA, she held various sales and business development positions at L-3 Aviation Products, Mooney International Corporation, and Team Aircraft. Stephenson holds a Bachelor of Science in Aeronautics and is an Instrument Rated Commercial Pilot. She has also served on the Board of Directors for the Aircraft Electronics Association (AEA).

- AerSale, a global supplier of mid-life aircraft, engines, used serviceable material, and maintenance, repair, and overhaul (MRO) services, has promoted **Basil Barimo**, formerly Chief Operating Officer, to Chief Executive Officer, and **Craig Wright**, formerly Chief Commercial Officer, to President, to facilitate rapid expansion of the business. AerSale founder **Nicolas Finazzo** will serve as Executive Chairman and co-founder **Robert B. Nichols** will serve as Executive Vice Chairman. "Unburdened from

the responsibility of day-to-day management, Bob and I will continue to steer AerSale's overall direction and seek new synergistic acquisitions while we expand the platform," said Finazzo. "Barimo and Wright are fully capable of leading the operations of our highly integrated, multi-faceted business model." In November 2018, the company announced its fourth strategic acquisition of an MRO business with the purchase of Miami-based component specialist Avborne.



Bruno Bergoend

- Effective January 1, 2019, **Bruno Bergoend** has been appointed Senior Vice President, Airbus and ATR Programs at Safran and Vice President, Public Affairs for the Occitanie region of France. He succeeds **André Guiraud**, who

has retired, and reports to **Stéphane Abrial**, Senior Executive Vice President, International and Public Affairs. Bruno Bergoend is now responsible for overseeing, coordinating and developing Safran's business with Airbus. He is assisted by **Peter Detjen**, previously at Zodiac Aerospace in Hamburg.

INDUSTRY PEOPLE

- After three years of development and expansion work at Frequentis Comsoft, a major software company in the Frequentis Group for air traffic management (ATM) and defense domains, **Gerald Enzinger** hands over the management agenda to former Austro Control Chief Operating Officer (COO), **Thomas Hoffmann**. Hoffmann, an air traffic control professional with a broad background of experience will take over the leading position at Frequentis Comsoft in Karlsruhe, Germany. He was initially an air traffic controller himself and later managed the Frankfurt tower branch of Deutsche Flugsicherung (DFS) as well as the control centers in Karlsruhe and Langen. Gerald Enzinger is moving back to Frequentis Headquarters in Vienna for private reasons. Together with Hoffmann, he will continue the management of Frequentis Comsoft until April 2019.



Katie Taplett

- The American Institute of Aeronautics and Astronautics (AIAA), has named **Katie Taplett** as managing director of Member and Market Development. Taplett brings almost thirty years of sales, business development and market/partnership development experience in the field of media and information services, working specifically with various business-to-business content providers and trade publishers within the aviation and space communities. She has extensive expertise in the strategic implementation of client sales engagement with both U.S. and non-U.S. clients with a focus on digital media, lead generation, and content creation. Taplett also has significant experience in the development of customer-driven marketing programs that feature integrated product offerings and branding strategies. Most recently, Taplett was Managing Director at MediaCOMMS and has worked at nationally recognized brands such as Aviation Week, Defense News/Sightline Media Group, Government Executive and Jane's Information Group to name a few.

- GA Telesis has announced the promotion of **Alex Tuttle** to Chief Operating Officer and **Andreas Bauer**, Ph.D., to Senior Vice President Operations, Logistics and Quality. Both positions will report to **Jason Reed**, Presi-

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March 19-21, 2019 – Gibson Hotel, Dublin, Ireland

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dent, Component Solutions Group (CSG). Bringing over 22 years of aviation engine management and operations experience, Tuttle joined GAT in 2002 and has held several positions of increasing responsibility, the most recent as vice president of the Engine Solutions Group (ESG). As COO, he will be responsible for oversight of all engine and airframe product line sales, asset management & disposition, procurement, repair & repair management, as well as all flight hour program activities. Bauer's experience in aviation operations management, inventory control, logistics and quality control spans the greater part of 20 years, five of those at GAT. With this promotion, he will expand his responsibilities from his previous position as VP, Operations, Logistics & Quality Control to include Quality Assurance and Facilities management under his realm.

- Werner Aero Services has reported that **Mr. Jeremy "Jeng" Gonzales** has joined its Singapore team as a Business Development Manager to continue growing its Asia Pacific business. Jeng has previously worked with major airlines and MROs in the region and possesses extensive knowledge and background in powerplant and fleet management, particularly in the A320 and ATR platforms. Jeng will be responsible for developing new strategic business in the Asian Pacific region as well as strengthening existing customer relationships.



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THE AIRCRAFT AND ENGINE MARKETPLACE

Commercial Jet Aircraft

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

Regional Jet / Turboprop Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
ATR 72-202	ACI Aviation Consulting	PW124B	455	1995	Now	Sale / Lease	Quentin Brasie	Qbrasie@aciaviation.com	+1 540-428-4388
CRJ-200LR	Regional One	CF34-3B1	8062	2006	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
CRJ-700	Regional One	CF34-8C5B1	10029	2001	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
Do328-100	Jetran	PW119B	3049	1996	Now	Sale	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
Do328-110	Jetran	PW119B	3024	1994	Now	Sale	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
Do328-110	Jetran	PW119B	3034	1995	Now	Sale	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
ERJ-170LR	AerFin	CF34-8E	1700123		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700119		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700124		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700142		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700152		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700155		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-145LR	Regional One	AE3007A1	145304	2001	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
ERJ-145LR	Regional One	AE3007A1	145331	2000	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
ERJ-145LR	Regional One	AE3007A1	145768	2003	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
SF340B	C&L Aviation Group	CT7-9B	194	1990	Now	Sale / Lease	Fred Dibble	fred.d@cla.aero	+1 207-217-6128
SF340B+	C&L Aviation Group	CT7-9B	425	1997	Now	Sale	Donald Kamenz	donald.k@cla.aero	+1 207-217-6259
Saab 340B+	C&L Aviation Group	CT7-9B	368	1994	Now	Sale	Donald Kamenz	donald.k@cla.aero	+1 207-217-6259
SF340A Cargo	C&L Aviation Group	CT7-5A	046	1986	Now	Sale	Fred Dibble	fred.d@cla.aero	+1 207-217-6128

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AE3007 Engines					
(3) AE3007A1P	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 786-623-3936
(1) AE3007A1	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Ben Ferguson	Benjamin.ferguson@rolls-royce.com	+44 7807 969 372
CF34 Engines					
CF34-8E5	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
CF34-10E	Now - Lease				
CF34-8C	Now - Lease				
CF34-3B1	Now - Lease				
CF34-3A	Now - Sale / Lease				
(2) CF34-8C5B1	Now - Sale / Lease	Regional One	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
(1) CF34-3B1	Now - Sale / Lease				
(2) CF34-10E7	Now - Sale/Lease/Exch.	Werner Aero	Cliff Topham	ctopham@werner aero.com	+1-703-402-7430
(multiple) CF34-8E5	Now - Sale / Lease	AerFin	Oliver James	Oliver.James@aerfin.com	+44 (0) 7930463293
(1) CF34-8E5A1	Now - Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204x202
(2) CF34-8C5B1	Feb 19 - Lease				
(1) CF34-10E6	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
CF34-8E(s)	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1 (513) 782-4272
CF& Engines					
(2) CF6-80C2A2	Now - Lease	Castlelake	Stuart MacGregor	stuart.macgregor@castlelake.com	+44 2071906138
CFM Engines					
(1) CFM56-7B26/3	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CFM56-7B26	Now - Lease				
(1) CFM56-7B26/E	Now - Lease				
(1) CFM56-7B26	Soon - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
(1) CFM56-3B1	Soon - Sale/Lease/Exch.		David Desaulniers	leasing@willislease.com	+1 415 516 4837
(1) CFM56-3C1	Feb 19 - Sale	LCH Trading	Carlos Miranda	cmiranda@lchaerospace.com	+1 954-644-9617



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THE AIRCRAFT AND ENGINE MARKETPLACE

Commerical Engines (cont.)

(2) CFM56-5A	Now - Sale	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
(1) CFM56-5B	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@wernerairo.com	+1-703-402-7430
(1) CFM56-7B	Now - Sale/Lease/Exch.				
(1) CFM56-5B3/P	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) CFM56-7B26/27	Now - Sale / Lease				
CT7 Engines	Sale / Lease	Company	Contact	Email	Phone
CT7-9B	Sale	C&L Aviation Group	Martin Cooper	martin.c@cla.aero	+1 207-217-6106
JT8D and JT9D Engines	Sale / Lease	Company	Contact	Email	Phone
(1) JT8D-217C	Now - Sale	AZURE RESOURCES INC.	Jeff Young	jeff@azureres.com	1-954-249-7935
(2) JT8D-219	Now - Sale	LCH Trading	Carlos Miranda	cmiranda@lchaerospace.com	+1 954-644-9617
GENx Engines	Sale / Lease	Company	Contact	Email	Phone
(1) GENx	Soon - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
LEAP Engines	Sale / Lease	Company	Contact	Email	Phone
(1) LEAP-1A33	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
(2) LEAP-1B28	Soon - Lease				
PW Small Engines	Sale / Lease	Company	Contact	Email	Phone
(1) PW121	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(2) PW123	Now - Sale / Lease				
(1) PW124B	Now - Sale / Lease				
(1) PW127E/F/M	Now - Sale / Lease				
(1) PW150A	Now - Sale / Lease				
(1) PW121	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	leasing@willislease.com	+1 415 516 4837
(1) PW124B	Now - Sale/Lease/Exch.				
(2) PW123	Now - Sale/Lease/Exch.				
(1) PW127	Now - Sale/Lease/Exch.				
(1) PW150A	Now - Sale/Lease/Exch.				
(1) PW127M	Now - Sale/Lease/Exch.				
(1) PW120A	Now - Sale / Lease	Regional One	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
(1) PW120	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) PW123E	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(4) PW126	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) PW121	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
PW119B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
PW119B	Now - Lease				
PW120A	Now - Lease				
PW121 (ATR)	Now - Lease				
PW124B	Now - Lease				
PW123B	Now - Lease				
PW125B	Now - Lease				
PW127F	Now - Lease				
PW150A	Now - Lease				
PW127M	Now - Lease				
PW150A RGB	Now - Lease				
PW127	Sale	C&L Aviation Group	Martin Cooper	martin.c@cla.aero	+1 207-217-6106
(1) PW124B	Now - Sale/Lease/Exch.	Logix.Aero	Jean-Christian Morin	jcmorin@logix.aero	+33.6.4782.4262
(2) PW127E/F			Remi Kryz	rkryz@logix.aero	+33.6.2079.1039
(4) PW127M					
(1) PW120 / PW121	Now - Sale / Lease	Royal Aero	Calum MacLeod	calum@royalaero.com	+49 8025 993610

THE AIRCRAFT AND ENGINE MARKETPLACE

Commerical Engines (cont.)

(1) PW4056-3	Now - Sale/Lease	Jet Midwest	Kevin Lee	engines@jetmidwest.com	+1-310-652-0296
RB211 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) RB211-535	Now - Sale / Lease	Jet Midwest	Dave Williams	dave.williams@jetmidwest.com	+1-817-791-4930
Trent Engines	Sale / Lease	Company	Contact	Email	Phone
(2) Trent 892	Now - Sale / Lease	TrueAero, LLC.	Matt Parker	mparker@trueaero.com	+1 469-607-6110
(4) Trent 556	Now - Sale / Lease				
(1) Trent 772B	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Ben Ferguson	Benjamin.ferguson@rolls-royce.com	+44 7807 969 372
V2500 Engines	Sale / Lease	Company	Contact	Email	Phone
(2) V2533-A5	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Ben Ferguson	Benjamin.ferguson@rolls-royce.com	+44 7807 969 372
(1) V2533-A5S2 Zero-TSN engine with RGI	Now - Lease	TrueAero, LLC.	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
(1) V2533-A5	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@werner aero.com	+1-703-402-7430

Aircraft and Engine Parts, Components and Misc. Equipment

Description		Company	Contact	Email	Phone
(1) A320-200 Landing Gear	Now - Sale/Lease/Exch.	TrueAero, LLC	Matt Parker	mparker@trueaero.com	+1 469-607-6110
A340-300/A330 Landing Gear	Now - Sale/Lease/Exch.				
A340-600 Landing Gear	Now - Sale/Lease/Exch.				
B777-200 Landing Gear	Now - Sale/Lease/Exch.				
Trent5562 Inlet Cowls & Fan Cowls	Now - Sale/Lease/Exch.				
Trent892 Inlet Cowls and Fan Cowls	Now - Sale/Lease/Exch.				
V2500-A5 Inlet Cowls & Fan Cowls	Now - Sale/Lease/Exch.				
CF6-80E Trust Reversers, Inlets & Fan Cowls	Now - Sale/Lease/Exch.				
(1) GTCP331-500B	Now - Sale/Lease/Exch.				
767-300ER 413K, 737-300 LANDING GEAR	Now - Sale/Lease/Exch.	AZURE RESOURCES INC.	Jeff Young	jeff@azures.com	1-954-249-7935
GTCP36-300A, GTCP85-98DHF APU	Now - Sale/Lease/Exch.				
A320 Nose Landing Gear	Now - Sale/Lease/Exch.				
CFM56-3 LPT MODULE, REPAIRED	Now - Sale/Lease/Exch.				
CFM56-3 ENGINE STAND	Now - Lease				
(1) GTCP36-150RJ, (2) GTCP36-100M,	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) RE220RJ, (1) PW126 RGB, (1) PW901A					
(1) APS1000-C12, (1) APS1000-C3					
GTCP131-9A (2), GTCP131-9B(2)	Now - Lease	REVIMA APU	Olivier Hy	olivier.hy@revima-apu.com	+33(0)235563515
GTCP331-200, GTCP331-250	Now - Lease				
APS500C14(3), APS1000C12(2), APS2000	Now - Lease				
APS2300, APS3200(2), APS5000(2)	Now - Lease				
PW901A(4), PW901C(2)	Now - Sale / Lease				
TSCP700-4E	Now - Sale				
(1) PW901A APU	Now - Sale	Royal Aero	Gary MacLeod	gary@royalaero.com	+44 (0)141 389 3014
(multiple) APS2300, (1) GTCP331-350C	Now - Sale / Lease	AirFin	Nick Filce	Nick.Filce@aerfin.com	+44 7770 618 791
(1) GTCP36-300A, (1) GTCP131-9A					
GTCP131-9A, GTCP131-9B, GTCP331-350C	Now - Sale/Lease/Exch.	Logix.Aero	Jean-Christian Morin	jcmorin@logix.aero	+33.6.4782.4262
GTCP331-500B, GTCP331-200/250,			Rich Lewsley	rlewsley@logix.aero	+44.79.0021.8657
APS3200, APS2300, GTCP85-129H					
APU GTCP 331-500	Soon - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
Engine stands now available	Now - Lease				
ENGINE STANDS: Trent 800, PW4000 112"/V2500		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@Werner aero.com	+1 201-674-9999
737-800 Winglets	Now - Sale / Lease				
737-700 & 737-800 Landing Gear	Now - Sale / Lease				
(3) APS 2300	Now - Sale/Lease/Exch.		Mike Cazaz	mike@werner aero.com	+1 201-661-6804
767-300 Winglets, LH-RH P/N 767-0010-5, -6, -7 & -8, SV- Now Sale		Reliance Aircraft	Terry Hix	thix@relianceaircraft.com	+1 512-439-6988
(2) PW901A, (1) PW901C(1), PW125B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368