

Weekly Aviation Headline News

WORLD NEWS

EL AL Launches new in-flight Wi-Fi system

EL AL Israel Airlines announced it officially launched its new fast, reliable commercial in-flight Wi-Fi service, powered by global communications company, Viasat Inc. EL AL was Viasat's European launch customer. Since first announcing their relationship, both companies undertook broad market studies focused on in-flight Wi-Fi passenger demand, engagement and service offerings, including a customer beta phase to determine internet package types. EL AL also began to re-energize its fleet taking on new Boeing 787 Dreamliners—a recent addition to Viasat's certified platforms.

Norwegian reports solid profit in Q2

Norwegian has reported its second quarter earnings for 2018 with a net profit of NOK 300 million, despite the highest growth in the company's history. Going forward, the growth will slow down and ramp-up costs will decrease, in line with Norwegian's strategy. The net result was NOK 300 million compared to a loss of NOK 691 million the second quarter last year.

S7 Airlines launches flights to Tashkent

S7 Airlines, a member of the global airline alliance oneworld, will launch a new flight route between Moscow and Tashkent, the capital of Uzbekistan, on 3 August 2018. The new route will be popular with passengers from Uzbekistan, whom often travel to Moscow for work or to visit friends and family. Passengers will also be able to experience the convenience of transferring to flights to other destinations in S7's wide network, without leaving Domodedovo airport. Flights will be operated by A320s.



The A220-300, the newest member of the Airbus family.

Photo: Airbus

Airbus rebrands the C Series

Introducing the A220

The Airbus A220, previously known as Bombardier C Series recently rolled out of the paint shop under its new name and livery. After performing a low pass for employees and media gathered at Airbus' delivery centre adjacent to Toulouse-Montaudou Airport in France, the A220-300 made a high-profile arrival – providing visual confirmation that the company's single-aisle product line has now expanded with the A220 family of jetliners.

Formerly the Bombardier C Series, the A220-100 and A220-300 were specifically designed for the 100-150 seat market and perfect-

ly complement the A320 Family. Some 100 employees were on the tarmac to give a warm welcome to the A220-300 – the longer-fuselage version in the A220 family.

“Work is well underway to make the A220 a commercial success.”

Eric Schultz, COO at Airbus

Airbus held a ceremony at its Toulouse headquarters, calling the rebranding of the planes “a historic moment.”

Born out of a partnership between Airbus and Bombardier in 2017, the A220s are marketed by Airbus, but designed and built by Bombardier.

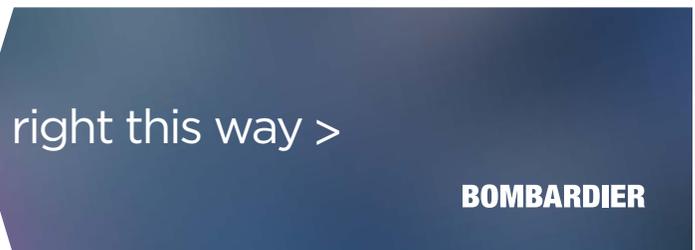
The A220-100 is the former Bombardier CS100, which first flew in 2013, and the A220-220 is the former C300, which first flew in 2015.

Eric Schultz, the Airbus Chief Commercial Officer, said that the A220 already is generating great interest among potential customers.

He said this is no surprise as “our new colleagues have built something quite extraordinary. I don't think it will be long before we hear news from the market.”

“I can assure you that work is well underway to make the A220 a commercial success, the market leader

Continued on page 3



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for aircraft between 100 and 150 seats,” Schultz added. “We trust that this segment could total as many as 7,000 aircraft over the next 20 years – that’s an exciting prospect.”

Philippe Balducchi, president of CSALP (the Airbus partnership with Canada’s Bombardier) concluded by giving an insight into the ramp-

up of production that already is underway in anticipation of increased sales.

“We’re already focused on our plans to raise production of A220s and to sharpen its competitiveness in the marketplace,” he explained. “I think it’s already been made very clear that our Canadian colleagues gave birth to a fan-

tastic aircraft. We’ll strive to do it justice with our experience in managing complex aircraft programmes and supply chain.”

JetBlue has become the first customer for the newly-rebranded Airbus A220 aircraft, signing a Memorandum of Understanding for 60 firm orders for the larger A220-300 model.

AIRCRAFT & ENGINE NEWS

LCI delivers third new EMS AW169 to Elitaliana

Lease Corporation International (LCI), the aviation division of the Libra Group, has delivered a third new Leonardo AW169 helicopter to Elitaliana S.r.l. (Elitaliana) in Italy, fully equipped for Emergency Medical Services (EMS) operations. The helicopter enters service with Elitaliana on a long-term operating lease from LCI and joins two other AW169s delivered by LCI in 2016 and 2017, operating from Elitaliana’s EMS bases in Rome and the Lazio region. Elitaliana is Italy’s oldest helicopter company, having been founded in 1964 and has developed extensive operational experience in a wide range of areas including EMS, offshore helicopter transport, environmental monitoring, forest fire fighting, and search and rescue.

BOC Aviation reports operational transactions for second quarter ended June 30, 2018

BOC Aviation has reported its operational transactions for the second quarter ended June 30, 2018. At the end of the second quarter the company owned and managed a portfolio of 324 aircraft, with an average aircraft age of 3.0 years and an average remaining lease term of 8.3 years for owned aircraft fleet, weighted by net book

Orders and deliveries – Boeing and Airbus

Airbus v Boeing: Orders and Deliveries					
June 2018 YTD					
	Airbus		Boeing		
Type	Orders	Deliveries	Type	Orders	Deliveries
A320 Family	156	239	737	319	269
A330	8	18	747	14	3
A340	0	0	767	20	9
A350	28	40	777	24	25
A380	14	6	787	83	72
Total	206	303	Total	460	378

Source: Airbus

Source: Boeing

June saw Airbus log orders for 100 jetliners – split almost equally between its A350 XWB/A330 widebody aircraft and the single-aisle A320 Family; while 80 deliveries were made from across the in-production A320, A330, A350 XWB and A380 product lines. Boeing generated a staggering 233 orders in June predominately for the 737 MAX. The U.S plane maker delivered 82 aircraft in June.

value. At the end of the quarter BOC Aviation had an order book of 163 aircraft, took delivery of 15 aircraft (including one acquired by an airline customer on delivery), signed 16 lease commitments, and had a customer base of 88 airlines in 35 countries and regions in its owned and managed portfolios. The company sold ten owned and one managed aircraft, the managed

fleet comprised 29 aircraft and the total number of aircraft delivered and scheduled to be delivered in 2018 is 58, all of which have been committed for lease and six of which have been or are expected to be acquired by airline customers on delivery.

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AIRCRAFT & ENGINE NEWS

LCI to lease Boeing 747-400F to Atlas Air

Lease Corporation International (LCI), the aviation division of the Libra Group, has entered into an agreement to place a Boeing 747-400F on a long-term lease with Atlas Air, a wholly owned subsidiary of Atlas Air Worldwide Holdings. Atlas Air Worldwide Holdings is a global leader in innovative, outsourced aviation operating services, with more than 25 years of experience serving the airline, express, e-commerce and freight industries, as well as commercial and military cargo and passenger customers.

ATR to display new Silver Airways ATR 42-600 at Farnborough International Airshow 2018

ATR, the equal partnership between Airbus and Leonardo, will use the Farnborough International Airshow to display its all-new ATR 42-600 in the livery of its U.S. launch customer, Silver Airways. The plane, which will be leased from Nordic Aviation Capital, will be open to inspection of attendees to the airshow. According to an ATR press release, the company will also be seizing the opportunity of the airshow to showcase additional innovations, with a dedicated display area near to the ATR 42-600 which will be used for the passenger seats, the Neo Classic and Neo Prestige. The Cabinstream system which enables passengers to stream multimedia content will be on show, as will ClearVision™, a commercial aviation first which, according to ATR: “improves a pilot’s situational awareness with optimized Head-Up capabilities which can also be coupled with Enhanced and Synthetic Vision Systems.” Silver Airways was founded in 2011 and is headquartered at the Fort Lauderdale-Hollywood International Airport. It operates around 170 daily scheduled flights to ten cities in Florida, while also serving eight destinations in the Bahamas, from its three hubs at Fort Lauderdale, Orlando and Tampa. Its fleet of 22 Saab 340Bs is now being augmented with ATR Family aircraft, with orders for 15 46-seat ATR 42-600s and four 70-seat ATR 72-600s, which are all scheduled for delivery between 2018 and 2020.

JetBlue signs commitment for 60 A220-300 aircraft, converts 25 A320neo orders to larger A321neo



JetBlue, the first customer for the newly-rebranded Airbus A220 aircraft

Photo: Airbus

JetBlue has become the first customer for the newly-rebranded Airbus A220 aircraft, signing a Memorandum of Understanding for 60 firm orders for the larger A220-300 model. In addition, the airline converted 25 of its current orders for Airbus A320neo aircraft into orders for the larger A321neo. JetBlue’s A321neos and A220s will be powered by Pratt & Whitney GTF engines.

MRO & PRODUCTION NEWS

Pattonair to open Bangalore facility, selected for Access India Programme

Pattonair, a leading global supply chain provider to the aerospace industry, has been selected as one of the first group of UK companies to participate in the Access India Programme (AIP). Sponsored by the Government of India, the program is the first of its kind to facilitate investments and market entry by small- and medium-scale companies in the UK into India. As the latest stage in Pattonair’s global expansion, the Derby, UK-headquartered company is establishing a wholly owned subsidiary and support facility in

Bangalore, scheduled to become operational by January 2019. Pattonair’s strategy is to support customers where they operate, which speeds up supply and allows it to tailor services to each customer’s specific needs and performance goals. Pattonair has serviced UTC in India since 2014 supplying C class parts to UTC’s Actuation Systems and Sensors & Integrated Systems (SIS) sites in Bangalore for major programs such as the 787, A350 and A320neo. Bangalore is the hub of India’s rapidly growing civil and military aerospace industry, which has attracted major companies including Airbus, Rolls-Royce and UTC. India boasts the world’s third-largest aircraft order book of over 1,000 aircraft, after the USA and China.

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MRO & PRODUCTION NEWS

AerFin brings new E170 EJets and Pool programs to the market

AerFin E170, MSN 17000123, has completed its full heavy maintenance and transition check at Atitech MRO in Naples and will be positioned with BeyondPool™ support program. The EASA-compliant aircraft, part of the 15 E170LR aircraft purchased by AerFin from Saudi Arabian Airlines, completed its heavy maintenance check on time and within budget as part of AerFin’s drive to place the E170 aircraft with its BeyondPool™ program, thus lowering the EJet maintenance cost to airlines. The aircraft, which is under LOI negotiation, is the first of seven to be remarketed for sale or lease. It has attracted significant interest from airlines seeking to increase their regional 70- to 80-seat capacity with the competitive advantage of the AerFin program. The program also provides guaranteed flight hour costs and rotatable pool program support, including support for the APS2300 APU and CF34-8E engines.

CTT Systems receives Zonal Drying™ system order for eight Boeing 737-800s

CTT SYSTEMS AB (CTT), a leader of aircraft humidity control systems, has received a Zonal Drying™ order from an undisclosed airline for eight Boeing 737-800 aircraft. The eight Zonal Drying™ systems will be retrofitted over the last quarter of 2018 and first quarter 2019. Peter Landquist, VP Sales & Marketing, CTT Systems AB, comments: “We see an uptick in airline demand for our Zonal Drying™ system, supported by higher oil price and driven by long-term supporting trends in high-density seat layouts and high load-factors. Several airlines that increased seat capacity by adding more seats now experience moisture problems from condensation due to insufficient support from built-in, passive drainage solutions. More airlines recognize the importance to master condensation. These airlines are not only committed to cut fuel consumption and emissions, but are also looking for ways to improve reliability in equipment and in their operations.” The Zonal Drying™ system removes trapped water in blankets, keeps the crown area dry and prevents unwanted excess weight from water accumulation. Thus, on every flight airlines can operate with lower energy needs and lower pollutant emissions. 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 down-

PPG family of aerospace sealants cured with ultraviolet light undergoing qualification

PPG has begun qualification and shop trials for a family of aerospace sealants that are cured on demand using ultraviolet (UV) light, allowing for substantial reductions in process time, waste and costs, while increasing efficiency. Based on PPG PERMAPOL® polymer technology and known in the industry as sealants cured on demand (SCOD), these proprietary sealants cure in seconds with the simple application of UV light, rather than hours or even days required for traditional-cure products. These new sealants are fuel resistant, offer low shrinkage, are highly flexible and exhibit excellent physical properties. PPG SCOD products are undergoing evaluation for qualification to the new SAE Aerospace Material Specification (AMS) 3102 written for UV-cured sealants. Several aircraft manufacturers have begun or will soon begin the evaluation and approval process for these products. “The new UV-cured SCOD family of aerospace sealants based on proprietary PPG Permapol technology represents the next inspired step in aerospace sealant technology – one that promises to provide value, performance and cost savings to our customers,” said Bill Keller, PPG Global Segment Manager, aerospace sealants.



PPG aerospace sealants cured on demand Photo: PPG

LHT signs component support contract with Avianca Brasil



LHT signs TCS® contract with Avianca Brasil

Photo: ©Avianca Brasil

The Brazilian airline Avianca Brasil and Lufthansa Technik have signed a comprehensive Total Component Support (TCS®) contract, covering repair and overhaul of components for the fleet of Avianca Brasil. The fleets consist of Airbus A320 family and Airbus A330 long-haul jets. Component support of the Airbus fleet will be ensured through a home base stock to be established in São Paulo, Brazil. In addition, Lufthansa Technik will support Avianca Brasil in the build-up of in-house capabilities, for example for the maintenance and repair of A320 emergency slides and other safety equipment. As part of the contract, Lufthansa Technik will also oversee the production of Airbus A320neo aircraft Avianca Brasil has on order. By performing independent checks during critical phases of the aircraft production, Lufthansa Technik’s Aircraft Production Inspection Program (APIP) ensures enhanced quality.

MRO & PRODUCTION NEWS

time due to electrical failures

HAECO Cabin Solutions becomes Airbus supplier for passenger seating

HAECO Cabin Solutions, a division of HAECO Americas with headquarters in Greensboro, North Carolina, USA, has reported that Airbus has approved HAECO Cabin Solutions as an offerable supplier for passenger seating. The Vector™ seat is now included in the A350 aircraft catalogue for line-fit selection. In addition, HAECO has secured a launch customer for line-fit A320-series seating with a sizeable carrier in Asia. Offerability in the catalogue is achieved after Airbus determines a supplier’s ability to reliably deliver seats to meet production line and customer requirements. Having Vector Economy approved by Airbus enables HAECO Cabin Solutions to present and offer seating solutions to line-fit customers more efficiently. HAECO Cabin Solutions and Airbus have also launched the offerability process for Vector Economy on A320 Family aircraft and Vector Premium for both the A320 Family and the A350 XWB Family. HAECO Cabin Solutions achieved FAA Technical Standard Order (TSO) C127b authorization in March 2018 for the Vector Premium seat, following Vector Economy in 2016. Adding Vector to the Airbus catalog will expedite the process for airline customers to select the platform.

AAR signs agreement with LORD Electro-mechanical Solutions

AAR’s OEM Aftermarket Solutions group has signed an agreement with LORD Corporation to be its channel to the Americas market for LORD Flight Control Equipment repairs. LORD products covered by this agreement are cockpit controls for systems on Airbus commercial fixed-wing aircraft. LORD acquired LORD Electromechanical Solutions (formerly Fly-by-Wire Systems France) from SKF in June 2016 and established a U.S.-based repair station for the products in August 2017. AAR will manage customer repairs going into LORD’s Cambridge Springs, Pa., facility.

LHT signs MoU with Norwegian for comprehensive CFM56-7B engine services

The Norwegian Air Shuttle Group and Lufthansa Technik have signed a Memorandum of Understanding to create an early extension to an existing Total Engine Support (TES®) contract with Lufthansa Technik. The agreement covers all-inclusive services for the CFM56-7B engines powering the airline’s current fleet of 115 Boe-

Special Purpose Operator status awarded to UK flight test company



EC135 helicopter G-NSYS

Photo: Nova Systems UK

EASA (European Aviation Safety Agency) Special Purpose Operator (Part-SPO) status has been achieved by Nova Systems UK, an arm of the Australian Nova Group. Using its EC135 helicopter G-NSYS, the Nova team has worked hard to deliver the safety systems and organizational structures required by the Agency. Nova now adds this important operating declaration to its existing Part 21 Flight Test capability. This

award means that Nova Systems can utilize its aircraft to deliver an extensive range of commercial aerial work operations, including specialized activities in industries such as agriculture, construction, photography, surveying, observation, patrol and aerial advertisement. Stephen Camporeale, CEO of Nova Systems UK said: “The ability to deliver a broader range of operations marks a step-change in Nova Systems UK aerial delivery capability. With our commitment to the highest levels of professional project delivery and efficiency we continue to aim to simplify airborne tests in the interests of our customers.” These important additions enable Nova Systems to provide customers with end-to-end airborne flight test and evaluation services which are not wholly reliant on major aircraft modifications. These services can range from the airborne assessment of pilot assistant devices such as airborne tablets, through collision avoidance equipment, to the delivery of electro optical or electronic assessment of ground targets or warships.

Lufthansa Technik introduces first engine wash with carbon dioxide pellets

Lufthansa Technik has developed a unique procedure to wash engines with dry ice, the solid form of carbon dioxide (CO2). The company has filed several patent applications, which means it can now develop an actual product, which will be called Cycleclean Dry Ice. As of 2019, the system will be used alongside the water-based Cycleclean® engine wash. During the new



Lufthansa Technik Cycleclean Dry Ice

Photo: LHT

engine wash procedure, dry ice pellets that are only a few millimeters in size are shot into the engine via a mobile blasting system. When they hit the components, the pellets release kinetic energy. Through this energy and contact with the ice-cold pellets (-78.5 degrees Celsius / -109.3 °F), dirt is dislodged from the components. The new procedure has many advantages: The carbon dioxide used is a by-product of the oil refinery and fertilizer industries so that no additional carbon dioxide has to be generated, and since the pellets transition fully to a gaseous state, there are no residues to deal with. In addition, the procedure can also be applied at outdoor temperatures below freezing. Engines can thus be washed 365 days a year, even in permafrost regions. The mobile Cycleclean Dry Ice washing system is mounted on a platform with an omnidirectional drive. A height-adjustable scissor lift enables fast and thorough cleaning of all engine types, regardless of their size and height. Since there is no need to fasten any pieces of equipment to the engine or to perform a run-up after the engine has been washed, the time needed for the cleaning process – and thus the ground time – is reduced to just 30 minutes compared with conventional engine washes.

MRO & PRODUCTION NEWS

ing 737-800 aircraft. According to the MoU, Lufthansa Technik will cover all planned and unplanned shop visits for the next five years at its highly dedicated CFM56 engine shop in Hamburg, Germany. The extended agreement will also cover a far-reaching engine lease management. Lufthansa Technik will secure the leasing of spare engines for Norwegian to ensure availability during peak overhaul periods. The contract will also include the regular employment of Lufthansa Technik's proprietary Cycleclean® Engine Wash and on-site services such as the use of the portable device aerotracer. Lufthansa Technik has been maintaining Norwegian's CFM56-7B engines since the fleet introduction of the Boeing 737-800 in 2008. In addition to the current engine agreement, Lufthansa Technik also supports the 737-800 fleet of the Norwegian Group with a range of other services, including extensive airframe maintenance.

West Star Aviation receives Brazilian approval for East Alton, IL (ALN) facility through 2020

West Star Aviation has reported that the Agência Nacional de Aviação Civil (ANAC), the Brazilian civil aviation authority, has approved West Star's East Alton (ALN) facility to work on Brazilian-registered aircraft through 2020. This approval is the latest addition to a growing list of authorizations which have allowed West Star to expand business worldwide. West Star will now offer full-service maintenance, installation, inspections and repairs on Brazilian-registered aircraft beginning June 2018.

MTU Maintenance Canada completes first V2500 shop visit

MTU Maintenance Canada re-delivered the first V2500 engine for customer IAE International Aero Engines (IAE) in Vancouver at the end of June. The engine falls under the contract between IAE and MTU last year that sees MTU Maintenance Canada serving V2500 aftermarket customers. The V2500 is the engine that powers

HAECO ITM deploys RAMCO Aviation Suite in its operations



HAECO ITM deploys Ramco Aviation Suite in its Operations Photo: HAECO

HAECO ITM, a member of the HAECO Group, has selected Ramco Systems (Ramco) – provider of the Ramco Aviation Suite of software – to support the company's IT operations. HAECO ITM will benefit from Ramco's end-to-end solution by unifying various techno-commercial functions – covering Customer Contract Management, Supply Chain Management, Inventory Management, Financial Management, and Component Engineering including Reliability Management – on a single platform equipped with advanced supply chain planning and optimization. Ramco Aviation Suite will integrate with HAECO's existing business systems, while the partnership will also enable HAECO ITM to interface with customers and suppliers through Aeroexchange. Aeroexchange is the only electronic business network that supports all MRO business processes within the aviation industry for buyers and sellers.

the A320ceo family. "MTU Maintenance performed over one third of all V2500 shop visits worldwide in 2017," says Michael Schreyögg, Chief Program Officer, MTU Aero Engines. "By introducing the line in Canada, we aim to strengthen our market position and grow as the engine family matures into the early 20s." Helmut Neuper, President and CEO of MTU Maintenance Canada adds: "Seventeen million Canadian dollars have been invested to establish the line in Richmond, British Columbia, by MTU. The MTU Maintenance Canada facility aims to service around 25 V2500 engines this year, ramping up to 40 in 2019."

FINANCIAL NEWS

DAE Board of Directors approves US\$300 million bond repurchase program

The Board of Directors and Shareholders of Dubai Aerospace Enterprise (DAE) has approved a bond repurchase program of up to US\$300 million. Repurchases will be conducted through transactions in the open market. DAE also announced that pursuant to this approval it had repurchased US\$43 million of its bonds maturing in 2024. DAE Managing Director Khalifa AlDaboos said: "Our bonds, in our opinion, are currently trading at prices and spreads not consistent with the Company's market position and



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FINANCIAL NEWS

strong credit profile. The strength of our balance sheet and our projected cash position allow us to repurchase our bonds at a considerable discount and improve the gross leverage position of the Company.” DAE currently has US\$2.3 billion in bonds in U.S. capital markets.

Héroux-Devtek completes acquisition of Beaver Aerospace & Defense

Héroux-Devtek, a leading international manufacturer of aerospace products, has successfully completed the acquisition of all the shares of Beaver Aerospace & Defense and its wholly owned subsidiary PowerTHRU, from Phillips Service Industries for a purchase price of US\$23.5 million including a US\$3.5 million balance of sale payable over the next two years, and subject to final working capital adjustments. The transaction was funded through the Corporation’s available cash on hand. Founded in 1952, Beaver is a vertically integrated manufacturer with a growing portfolio of company-designed products. It designs and manufactures custom ball screws from a variety of materials based on customer and application requirements, as well as designs, manufactures, assembles and tests electromechanical actuators. Beaver operates three facilities totaling 82,200 ft² in Livonia, Michigan and employs approximately 100 people. It generates annual revenues of approximately US\$30 million, of which about two-thirds are derived from the defense sector.

Norwegian reports solid profit in second quarter

Norwegian (NAS) has released its second-quarter earnings for 2018 with a net profit of NOK 300 million, despite the highest growth in the company’s history. Going forward, the growth will slow down, and ramp-up costs will decrease, in line with Norwegian’s strategy. The net result was NOK 300 million compared to a loss of NOK 691 million the second quarter last year. The result is affected by a reduction in unit costs, which has decreased by 9% this quarter and with 19% excluding fuel. One-offs this quarter have also contributed to the cost reduction. The costs are lower despite Norwegian’s highest ever production growth (ASK) of 48% and increasing fuel prices. Norwegian’s traffic growth (RPK) this quarter was 46%. The airline carried ten million passengers during the second quarter, an increase of 16%. The load factor for the second quarter was 86.8%, down 0.9 points compared to the second quarter last year. (US\$1.00 = NOK8.11 at time of publication.)

Dubai Aerospace Enterprise (DAE) announces second-quarter 2018 strategic and operational highlights

Dubai Aerospace Enterprise (DAE) has announced its second-quarter 2018 key strategic and operational highlights for its leasing arm DAE Capital. DAE has delivered the first of five Boeing 737 MAX 8 aircraft to GOL and delivered the first two of five new Boeing 787-9 Dreamliners to Gulf Air. The company announced the sale of a 16-aircraft portfolio valued at approximately US\$900 million agreed with three counterparties and has signed a landmark unsecured revolving credit facility with conventional and Islamic tranches of up to US\$800 million. Furthermore, DAE has appointed David Houlihan to the newly created role of President, DAE Capital. DAE has purchased nine new aircraft during the second quarter and completed 26 leasing transactions. The number of owned, managed and committed aircraft in its fleet is 375 aircraft at the end of the second quarter. At present DAE has 110 customers in 56 countries and a portfolio utilization of 99.7%. The average age of its owned fleet is 5.74 years and the average lease term remaining on its owned fleet is 5.72 years.

Delta Air Lines reports June-quarter 2018 profit

Delta Air Lines has reported financial results for the June-quarter 2018. Adjusted pre-tax income for the June-quarter 2018 was US\$1.6 billion, a US\$183 million decrease from the June 2017 quarter, as record revenues partially offset the approximately US\$600 million impact of higher fuel prices. Delta’s adjusted operating revenue of US\$11.6 billion for the June quarter improved 8%, or US\$880 million versus the prior year. This quarterly revenue result marks a record for the company, driven by improvements across Delta’s business, including double-digit increases in both cargo and loyalty revenue. Total unit revenues excluding refinery sales (TRASM) increased 4.6% during the period driven by strong demand across all entities and improving yields. Foreign exchange drove a nearly one-point benefit to the quarter. Delta generated US\$2.8 billion of operating cash flow and US\$1.4 billion of free cash flow during the quarter, after the investment of US\$1.4 billion into the business primarily for aircraft purchases and improvements. For the June quarter, Delta returned US\$813 million to shareholders, comprised of US\$600 million of share repurchases and US\$213 million in dividends.

Air France-KLM shares jump on rise in June passenger traffic

The share price of Air France-KLM at one point on Monday, July 9, rose 8.4 percent, the largest increase since 2017. The rise reflects the com-

pany’s 3.5% rise in passenger traffic for June. The share price peaked at €7.46 (US\$8.73) and closed at €7.34 (US\$8.59), up 6.34%. In addition to the positive uptick in passenger numbers, Air France-KLM may be a step nearer appointing a new CEO to replace Jean-Marc Janailac who resigned in May, having failed to resolve current conflicts with unions over pay increases.

MILITARY AND DEFENCE

GE awarded US\$437 million contract for Adaptive Cycle Engine

On June 29, GE was awarded a US\$437 million contract modification from the U.S. Air Force Life Cycle Management Center (AFLCMC) at Wright-Patterson Air Force Base. The contract modification is for the execution of next-generation adaptive propulsion risk reduction for potential air superiority applications. GE, along with the U.S. Air Force, has matured the enabling technologies and architectures of adaptive cycle engines through a series of highly successful design and test activities in the Adaptive Versatile Engine Technology (ADVENT), Adaptive Engine Technology Development (AETD) and Adaptive Engine Transition Program (AETP) fields. Between 2007 and 2017, GE successfully designed and tested multiple three-stream adaptive fan configurations, an advanced compressor rig, two full-scale core engines, and a full three-stream adaptive cycle technology demonstrator engine. GE’s understanding of adaptive cycle engines is based on this solid foundation of testing.

OTHER NEWS

At **Sitael** headquarters, Nicola Zaccheo - Sitael CEO, Vincenzo Giorgio - Altec CEO, and George Whitesides - Virgin Galactic CEO, have signed a framework agreement that intends to bring **Virgin Galactic** spaceflights to Italy. The agreement comes after two years of business discussions, government regulatory analysis, studies on potential operations and market assessment. In September 2016 **Altec** – a public-private company owned by the **Italian Space Agency** and **Thales Alenia Space** – signed a Memorandum of Understanding with Virgin Galactic. In August 2017 the U.S. Department of State approved a Technical Assistance Agreement for the development of a plan for ultimate construction of an Italian spaceport that will provide the infrastructure for future Virgin Galactic suborbital flights. Virgin Galactic’s operational headquarters remains at Spaceport America in New Mexico, the world’s first purpose built commercial spaceport. Earlier this year, following in-depth analysis of potential locations, the Italian aviation authority ENAC designated the Taranto-Grottaglie Airport

PASSENGER STATISTICS - JUNE

- **WestJet** announces June 2018 traffic results with a load factor of 83.6%, an increase of 0.7 points year over year. Traffic increased 8.5% year over year, while capacity grew 7.5% over the same period. WestJet welcomed an additional 120,000 guests in June, a year-over-year increase of 6.0%.
- **SAS Scandinavian Airlines** has released traffic data for June 2018. Scheduled number of passengers increased by 2.6% to 2.7 million in June. Scheduled traffic for the month increased 2.8%, while capacity was up 1.5% compared to June 2017. The load factor increased 1.0 points to 81.8% compared to the previous year.
- **Southwest Airlines** has reported its June 2018 preliminary traffic statistics. The Company reported a traffic increase of 2.6% compared to June 2017 and a capacity increase of 3.2%. The June 2018 load factor was 86.9%, down 0.5 points compared to the previous year.
- In June, **Finnair** carried 1,240,500 passengers, 12.8% more than in the corresponding period of 2017. The number of passengers grew in Asian traffic (+15.5%), European traffic (+12.4%), North America traffic (+18.2%) and domestic traffic (+9.9%). Finnair's overall capacity increased in June by 16.4% year-on-year. Finnair's traffic grew less, by 14.5%. The high-capacity growth rate was reflected in the passenger load factor, which decreased year-on-year by 1.4 points to 85.4%.
- **Hawaiian Airlines** has posted its system-wide traffic statistics for the month of June. Hawaiian welcomed more than 1.04 million guests in June 2018, an increase of 2.9% over the same period last year. Total traffic increased 4.6% on an increase of 4.3% in capacity. The load factor increased 0.2 points to 87.8%.

OTHER NEWS

as the future home for horizontally launched spaceflights in Italy.

Munich Airport has set a new record for passenger traffic in the first six months of the 2018 operating year, with a total of 21.7 million passengers handled. This represents an increase of about 3%. The number of take-offs and landings was up slightly as compared with the first half of 2017 to around 200,000. Growth was dampened somewhat in the first half by an unusually high number of flight cancellations, largely due to thunderstorms. There were 2,600 more canceled flights than in the first half of 2017. The total airfreight tonnage, at approximately 173,000 tonnes, was down by 3% on a year-over-year basis. International traffic remained the main growth driver at Munich Airport. On routes within Europe, traffic increased by around 600,000 passengers – or +4.6% – as compared with the first half of 2017. On intercontinental routes, the passenger total was about 5% higher. A major driver behind this above-average growth in long-haul traffic was **Lufthansa**, which substantially increased its capacity in this segment. Since the start of the summer timetable period, Lufthansa has had five of its 14 Airbus A380 widebody jets stationed in Munich. The giant Airbus departs daily for Hong Kong, Beijing and Los Angeles and achieves high load factors

on all three routes. The boom in the long-haul segment is likely to continue in the second half of the year. As “the most important newcomer”, airport CEO Dr. Michael Kerkloh announced that the Colombian airline **Avianca** will be offering five weekly departures from Munich to Bogota as of November 17. At its home hub Avianca offers an extensive network of connections. These include 20 destinations in Columbia and another 60 cities in Latin America. Another non-stop connection to South America will be launched in the first half of 2019 by **LATAM**; South America's largest airline will offer scheduled flights from Munich to the Brazilian metropolis of Sao Paulo.

Honeywell International has confirmed the first installations of its JetWave™ satellite communications hardware in Africa, bringing a high-speed, global and consistent in-flight Wi-Fi solution to business jets on the African continent for the first time. **ExecuJet South Africa** installed Honeywell's JetWave hardware onboard Global Express and Challenger 604 aircraft at its Johannesburg base. JetWave delivers access to the faster Ka-band satellite communications network, provided by Inmarsat through its Jet ConneX service. This gives passengers and flight operators access to reliable, high-speed “Wi-Fi in the sky” that allows easy use of high-bandwidth services such as video streaming, online conferencing and gaming applications at speeds users are used to achieving at home or in the office. ExecuJet South Africa is also among the first to

offer “Fly Away” installations of the JetWave hardware on select aircraft platforms. By offering turnkey installations in fewer than 15 days, aircraft downtime is reduced to install this next-generation connectivity solution, and passengers can benefit from increased productivity and seamless in-flight Wi-Fi in the air.

Air traffic controllers in Lebanon will soon be training in a ‘real world’ air traffic environment using highly advanced simulation technology developed in New Zealand. **Airways New Zealand** has signed an agreement with the **International Civil Aviation Authority (ICAO)** on behalf of the **Directorate General of Civil Aviation (DGCA)** in Lebanon to install and deploy a Total Control LCD tower simulator and two radar/non-radar simulators at their facilities at Beirut International Airport. Once fully commissioned, the simulators will be used by DGCA's air traffic control students and instructors to control traffic in exercises that mimic the real world – imitating a full air traffic control flight information region using high fidelity 3-D graphics, and simulating any weather conditions. Airways' Total Control simulation technology enhances the quality and speed of ATC training, significantly reducing on-the-job training time while the industry worldwide is under increased pressure to train enough air traffic controllers to meet demand. Developed by Airways in partnership with New Zealand-based 3-D graphics experts Animation Research Ltd, Total Control software capability-

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ties include a full 360° tower simulator, an LCD tower simulator, a desktop simulator for use in towers, and a radar simulator. It also features a user-friendly interface, high-quality graphics, and easily adaptable exercises that can be edited by the ANSP to suit their existing traffic and potential scenarios. Airways has been delivering ATC training solutions and consultancy services to the Middle East region for more than 20 years. The organization has worked with the General Authority of Civil Aviation (GACA) in Saudi Arabia for the past eight years, training air traffic control students at its training campuses in New Zealand, and is this year training students from Fujairah, Kuwait and Bahrain.

StandardAero, in partnership with California-based **MRO ACI Jet**, has certified another **Honeywell** JetWave™ Ka-band satellite communication system, completing a Supplemental Type Certificate (STC) for installations on Bombardier Global Express, Global 5000 and Global 6000 aircraft. Honeywell's JetWave system is a popular offering in the world of in-flight connectivity, utilizing Ka-band technology to replicate the speed and performance that consumers are accustomed to in their homes. StandardAero's STC provides for installation of the Honeywell JetWave hardware, under a Honeywell Ka radome, along with a Honeywell CNX-900 router. StandardAero partnered with ACI Jet in San Luis Obispo, CA, to complete the installation.

Finnair will begin offering a new baggage collection and check-in service from **London Heathrow** to enhance its customer experience in partnership with leading airport baggage innovators, AirPortr. The digital ancillary service is designed to enhance the customer experience for the airline's London-based travelers, enabling them to arrange the collection of their baggage from the doorstep of their home or hotel, which is delivered and checked-in to their flight on their behalf. For Finnair customers who have checked in online, baggage can be collected at their London location up to a few hours prior to departure. This means all customers can now head straight

Turboprop manufacturer **ATR** has received certification from the **European Aviation Safety Agency (EASA)** for its new ATR 72-600 Full Flight Simulator (FFS) based at its headquarters in Toulouse. This new simulator is now open for reservations. Manufactured by **CAE**, it will enable ATR to provide its customers and operators with some 5,000 additional training hours per year. Within a period of 18 months, ATR has put three simulators into service, and another one will soon be installed at a location that remains to be determined. ATR has five training centers based in Toulouse, Paris, Johannesburg, Singapore and Miami, and offers a unique range of pilot training courses including Type Rating, TRI Instructor Course, Multi Crew Coordination, Low Visibility Operations, modular PBN (Performance Based Navigation), upgrade to Captain, etc. ATR also offers an integrated Cadet program in partnership with Europe's top aviation school ENAC. This two-year end-to-end course aims at training high-end ready-to-fly First Officers with Captain's DNA, thereby offering a long-term solution to the pilot shortage. The first ATR-ENAC cadets will be ready to fly in October.



ATR 72-600 Full Flight Simulator in Toulouse receives EASA certification
Photo: ATR

through airport security when departing, enjoying hassle-free boarding and a smoother, more enjoyable journey – next seeing their baggage at their destination airport.

The **Civil Aviation Authority of Singapore (CAAS)**, the **European Aviation Safety Agency (EASA)** and **Airbus** have agreed to collaborate in the development of safety standards and regulatory requirements for unmanned aircraft systems (UAS) in urban environments. The tripartite Project Document, which lays out the areas of collaboration, was signed by representatives from CAAS, EASA and Airbus. The Project Document establishes a framework for the exchange of information and technical expertise among the three parties to facilitate the development of safety standards and regulatory requirements, as well as operational and technological assessments for the deployment of UAS in urban environments, such as last-mile deliveries, lever-

aging Airbus' experience with the ongoing Skyways project (Skyways is an Airbus experimental project which aims to establish seamless multi-modal transportation networks in smart cities. Through Skyways, Airbus aims to develop an airborne infrastructure solution to address the sustainability and efficiency of parcel delivery businesses in large urban environments.) The parties will also share safety information and learning outcomes from the urban UAS trials. The parties also agreed to jointly organize UAS-themed activities such as educational workshops and seminars.

Ryanair has been forced to cancel 30 of its 290 Irish flights on Thursday, July 12, after strike action was taken by a number of its pilots. The strike is over disagreements on seniority and promotions after 99 percent supported the action according to pilot union **Forsa**. Ryanair refuted the numbers quoted, stating that only 27

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percent supported the strike in the Republic of Ireland. According to a statement from Ryanair: "We have tried to avert this disruption, which is unnecessary given Ryanair pilots' and their union FORSA has received written proposals on seniority, annual leave and base transfers, which are what FORSA claims are the reasons for this strike, yet FORSA has rejected 21 separate invitations to meet Ryanair to negotiate these documents." It is anticipated that further strike action may take place on July 25, this time with cabin crew issues over pay and promotions being the cause for dispute.

The current flight cancellations come on the back of a recent spate of flight cancellations owing to air traffic control staff (ATC) shortages in the UK, Germany and France, where strike action has also been involved. However, Ryanair seems to be in dispute with National Air Traffic Services (NATS) over the supposed lack of ATCs. According to a Ryanair tweet last Sunday, 44 percent of their flights were delayed owing to ATC problems.

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July 16 - 22, 2018

Engine Leasing Seminar

September 18, 2018 – Copthorne Tara Hotel, Kensington, London, UK

Transactional Support & Risk Management Seminar, London

September 19, 2018 – Copthorne Tara Hotel, Kensington, London, UK

MRO Europe

October 16 - 18, 2018 – Amsterdam

Aircraft Economic Life Summit 2018

November 20, 2018 – Gibson Hotel, Dublin, Ireland

Click here for more aviation events

INDUSTRY PEOPLE



Fabrice Dumas

- The French Group, Sabena technics, has appointed **Fabrice Dumas** as the new Managing Director of its Nîmes site (France). He will be part of the Group's Executive Committee.

Fabrice Dumas, a graduate from ISEP, began his career in 1989 as an engineer and brings along over 15 years of management experience. He has held a number of high-ranking positions in the aviation industry such as President and General Director of EADS SECA during the merger with Vector Aerospace, and CEO of Indusmecca. Before joining Sabena technics, Fabrice Dumas served as CEO of Novae Aerospace Industry where he contributed to developing the company for over two years.

- **Yoel Arnoni** and the principals of the Av8 group of companies (Av8 MRO & Av8 PMA), have launched Av8 AOG and have named **Chris Lesniak** as Director of Sales. Av8 AOG will focus exclusively on certified parts' and PMA parts' sales to end users as well as other distributors and repair stations. Chris Lesniak was named as Director of Sales for Av8 AOG and will

be responsible for sales and management of the multiple market channels the Av8 Group of companies has developed. A parts industry veteran, Lesniak has held various sales and management positions at companies including Arnoni Aviation/ APPH, Avant Aerospace, RTL Group and Baker Aviation. In his most recent position, he worked as Director of Sales and Marketing at RBR Maintenance where he was responsible for managing the maintenance sales staff and outside parts' sales.



Perry Bradley

- GE Aviation has appointed **Perry Bradley** director of media relations. Bradley will lead all media relations activity, including crisis communications, and developing and maintaining relationships with

key traditional and non-traditional media outlets. He replaces **Rick Kennedy**, who is retiring September 1, following a storied 30-year career with GE Aviation. Bradley joined GE Aviation in 2012 as the client communications manager for the Services business. He also supported the Business and General Aviation – Integrated Systems business, and most recently was lead communicator for the GE Aviation Global Supply Chain.



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Commercial Jet Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
A319-100	ORIX Aviation	V2522-A5	1604	2001	Q1/2019	Sale	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A319-100	ORIX Aviation	V2522-A5	1445	2001	Q4/2019	Sale	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A320-200	Castlelake	V2527-A5	2692	2006	Q4/2018	Lease	Michael Hackett	Michael.hackett@castlelake.com	+44 20 7190 6120
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	Q1/2019	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
B737-800	ORIX Aviation	CFM56-7B24E	40317	2012	Q4/2019	Sale / Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
B737-800	ORIX Aviation	CFM56-7B24E	40287	2012	Q1/2019	Sale / Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
B737-800	ORIX Aviation	CFM56-7B26/3	38015	2011	Q1/2019	Sale / Lease	Cian Coakley	Cian.Coakley@orixaviation.hk	+852 9178 8055
B737-800	Magnetic MRO	CFM56-7B26	28621	2000	Now	Sale	Alexey Ivanov	alexey.ivanov@magneticmro.com	+7 (910) 443-55-18
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
B757-223 (7x)	Jetran	RB211-535E4B	various	91/92	Now	Lease	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
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

Regional Jet / Turbo Prop Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
ATR72-212	C&L Aviation Group	PW127	434	1994	Now	Sale	Donald Kamenz	donald.k@cla.aero	+1 207-951-6259
ATR72-212	C&L Aviation Group	PW127	425	1994	Now	Sale	Donald Kamenz	donald.k@cla.aero	+1 207-951-6259
ATR72-212	C&L Aviation Group	PW127	420	1994	Now	Sale	Donald Kamenz	donald.k@cla.aero	+1 207-951-6259
ATR72-202 Cargo	C&L Aviation Group	PW124B	455	1995	Now	Sale	Donald Kamenz	donald.k@cla.aero	+1 207-951-6259
ATR72-500F	Castlelake	PW100-127F	0585	1999	Now	Sale	Michael Hackett	Michael.hackett@castlelake.com	+442071906120
CRJ-200LR	Regional One	CF34-3B1	7369	2000	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext. 164
CRJ-700	Regional One	CF34-8C5B1	10205	2005	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext. 164
CRJ-900LR	Regional One	CF34-8C5	15111	2007	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext. 164
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
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 Narayen	Auvinash.Narayen@aerfin.com	+44 (0) 7766384581
ERJ-145	Regional One	AE3007A1P	145291	2000	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext. 164
ERJ-145	Regional One	AE3007A1P	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
SF340B+	C&L Aviation Group	CT7-5A	368	1995	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	Sale / Lease	Company	Contact	Email	Phone
(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) CF34-8E5A1	Now - Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) CF34-10E5	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CF34-10E6	Now - Lease				
(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) CF34-10E6	Now - Lease	Willis Lease	Jennifer Merriam	jmerriam@willislease.com	+1 (415) 408 4742
(1) CF34-10E5A1	Now - Lease				
CF6 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CF6-80C2B1F	Now - Lease	TrueAero	Chris Luke	cluke@trueaero.com	+1 (772) 783 2300
(1) CF6-80C2B7F	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(5) CF6-80C2B1F	Now - Sale			aircrafttrading@gatelesis.com	
CFM Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CFM56-3C1	Now - Sale / Lease	Royal Aero	Calum MacLeod	calum@royalaero.com	+49 8025 993610
(2) CFM56-5B	Now - Sale / Lease	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(2) CFM56-7B26	Now - Sale				
(2) CFM56-7B26	Now - Sale / Lease	Magnetic MRO	Alexey Ivanov	Alexey.Ivanov@magneticmro.com	
(1) CFM56-7B-24	Now - Sale / Lease				
(1) CFM56-7B27/B1	Now - Sale / Lease				
(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) CFM56-7B27	Now - Lease				
(2) CFM56-5A	Now - Sale	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272





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(1) CFM56-5B	Now - Sale / Lease	AerFin	Oliver James	Oliver.James@aerfin.com	+44 (0) 7930463293
(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	Now - Sale / Lease				
(1) CFM56-7B26	Now - Lease	Willis Lease	Jennifer Merriam	jmerriam@willislease.com	+1 (415) 408 4742
(1) CFM56-7B24/3	Soon - 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-219	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1 954 676 3111
(1) JT8D-217C	Now - Sale	AZURE RESOURCES INC.	Jeff Young	jeff@azureres.com	1-954-249-7935
GENx Engines	Sale / Lease	Company	Contact	Email	Phone
(2) GENx	Soon - Lease	Willis Lease	Jennifer Merriam	jmerriam@willislease.com	+1 (415) 408 4742
LEAP Engines	Sale / Lease	Company	Contact	Email	Phone
(2) LEAP-1A33	Soon - Lease	Willis Lease	Jennifer Merriam	jmerriam@willislease.com	+1 (415) 408 4742
(1) 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
(1) PW123B/D/E	Now - Sale / Lease				
(1) PW124B	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	d-desaulniers@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				
PW127M	Now - Lease				
PW150 GRB	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 Krysz	rkrysz@logix.aero	+33.6.2079.1039
(4) PW127M					
(1) PW120 / PW121	Now - Sale / Lease	Royal Aero	Calum MacLeod	calum@royalaero.com	+49 8025 993610
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) PW4168A	Soon - Lease	Willis Lease	Jennifer Merriam	jmerriam@willislease.com	+1 (415) 408 4742

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
(3) Trent 800	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(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) V2527-A5	Soon - Lease	Willis Lease	Jennifer Merriam	jmerriam@willislease.com	+1 (415) 408 4742
(1) V2533-A5	Soon - Lease				
(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	TrueAero, LLC	Matt Parker	mparker@trueaero.com	+1 469-607-6110
(1) A330-300 Landing Gear	Now - Sale				
(2) A340-600 Landing Gear	Now - Sale				
(1) A340-300 Landing Gear	Now - Sale				
(2) GTC331-500	Now - Sale				
(2) GTC331-500B	Now - Sale/Lease/Exch.				
(1) APS 3200	Now - Sale/Lease/Exch.				
767-300ER 413K, 737-300 LANDING GEAR	Now - Sale/Lease/Exch.	AZURE RESOURCES INC.	Jeff Young	jeff@azureres.com	1-954-249-7935
GTC331-500A, GTC331-500B	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) GTC331-500R, (2) GTC331-500M,	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					
GTC331-500A (2), GTC331-500B(2)	Now - Lease	REVIMA APU	Olivier Hy	olivier.hy@revima-apu.com	+33(0)235563515
GTC331-200, GTC331-250	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
(multiple) APS2300, (1) GTC331-350C	Now - Sale / Lease	AirFin	Nick Filce	Nick.Filce@aerfin.com	+44 7770 618 791
(1) GTC331-300A, (1) GTC331-9A					
GTC331-9A, GTC331-9B, GTC331-350C	Now - Sale/Lease/Exch.	Logix.Aero	Jean-Christian Morin	jcmorin@logix.aero	+33.6.4782.4262
GTC331-500B, GTC331-200/250,			Rich Lewsley	rlsley@logix.aero	+44.79.0021.8657
APS3200, APS2300, GTC331-129H					
APU GTC331-500	Soon - Lease	Willis Lease	Jennifer Merriam	jmerriam@willislease.com	+1 (415) 408 4742
Engine stands now available	Now - Lease				
(2) GTC331-9B, (2) GTC331-9A	Now - Sale / Lease	GA Telesis	Dave Dicken	ddicken@gatelesis.com	+1 954-676-3111
ENGINE STANDS: Trent 800, PW4000 112"/V2500		National Aero Stands		support@stands.aero	+ 1 305-558-8973
/ CFM56/ PW2000 & Bootstrap kits					
GTC331-9A, GTC331-9B	Now - Sale / Lease	Werner Aero Services	Julien Levy	jlevy@Werner aero.com	+1 201-674-9999
GTC331-300A, 737-800 Winglets	Now - Sale / Lease				
737-700 & 737-800 Landing Gear	Now - Sale / Lease				
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@lh.aero.com	+49-6731-497-368