

## WORLD NEWS

### CAE to train Virgin Atlantic pilots

Under the terms of a 10-year agreement, Virgin Atlantic's pilots will receive Airbus A330 and A350 training at CAE's training centre in London Gatwick, equipped with new CAE 7000XR full-flight simulators, starting in the first half of 2019. The contract also includes the deployment of one Airbus A350 flight training device (FTD), to be delivered to Virgin Atlantic's training centre "The Base" in Crawley. The CAE 500XR Series FTD will be ready for training by the end of 2018.

### Ryanair to open Dusseldorf base

Ryanair announced that it will open a new base at Düsseldorf Airport from June, its 11th base in Germany and 86th in Europe, with 1 based aircraft, as it launched 2 new summer routes to Alicante and Malaga. These new Ryanair routes are in addition to the daily service to Palma de Mallorca which was announced earlier this year and the 12 routes operated on behalf of Laudamotion.

### Budapest triumphs at Routes Europe Awards

In recognition of its extensive B2B marketing efforts, Budapest Airport was crowned a winner at last week's Routes Europe Marketing Awards. Accepting the award on behalf of Budapest Airport, Balázs Bogáts, Head of Airline Development said: "We're ecstatic to have won and I thank the airlines for the recognition! Our category has some very strong competition and has always been so closely fought so we're absolutely thrilled we have regained the title after a seven-year hiatus."



Widerøe will receive two more E190-E2s this year.

Photo: Alan Dron

## E2 completes first revenue flight

With Scandinavian carrier Widerøe

Widerøe, Scandinavia's largest regional airline, completed the first scheduled passenger flight of an Embraer E190-E2 last week. The aircraft, registered LN-WEA and operating as flight WF622, departed Bergen Airport at 7:56 AM and arrived at Tromsø Airport at 9:39 AM local time. The flight was sold out.

The flight marks the official entry into service of the first of three new E-Jets E2s that Embraer has developed to succeed its first-generation E-Jets. Deliveries of the larger E195-E2 are planned to start in 2019, and in 2021 for the smaller E175-E2.

"This is a truly historic day for the E-Jets programme and for Em-

braer," said John Slattery, President & CEO, Embraer Commercial Aviation. "The first revenue flight is the crowning achievement of years of hard work and planning. I know

**"This is a truly historic day for the E-Jets programme and for Embraer,"**

*said John Slattery, President & CEO, Embraer.*

Widerøe's customers are going to love flying on a such a green airplane."

Widerøe passengers experienced a quiet, environmentally-friendly flight on the 672 nm sector. The E190-E2 has the lowest external noise and emissions levels of any aircraft in its category and burns

17.3% less fuel than the current-generation E190.

The completely redesigned and pleasant E2 cabin interior features new acoustic treatments, an improved quiet air conditioning system and more stowage space. In some flight conditions, E2 cabin noise levels are 50% lower than those of its main competitor.

The lowest community noise margins in the airline industry were achieved through a combination of low-drag and low-noise airframe design with outstanding field performance. These features reduce required engine thrust making the

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E2 much quieter during approach and take-off. Stein Nilsen, Widerøe's President & CEO, spoke after the flight landed. "Today, we're celebrating the beginning of a new era for Widerøe. It's the first jet in our fleet. And

we'll always have the distinction of being the first airline to fly the E2. We see a bright future with our new E2 jets."

Widerøe will receive two more E190-E2s this year. It holds purchase rights for an ad-

ditional 12 E2s. The total value of the order is approximately USD 873 million if all rights are exercised.

**AIRCRAFT & ENGINE NEWS**

**Vallair completes acquisition of six aircraft to support launch of Airbus A321-200 P2F program**

Vallair, the aircraft trading, leasing and specialist MRO organization, has completed the acquisition of six Airbus A321-200 aircraft (MSN891, MSN677, MSN827, MSN835, MSN968 and MSN974). These aircraft will be attributed to short-term lease programs within Vallair's current portfolio and will serve as initial feedstock for the Company's launch of the Airbus A321-200 P2F program. Vallair was recently announced as the launch customer of the A321-200 P2F with EFW/STA cargo program in addition to an earlier launch announcement with A321 Precision Conversions in October 2017. The A321 & A320 P2F conversion programs, launched in 2015, are a collaboration between ST Aerospace, Airbus and EFW (Elbe Flugzeugwerke). ST Aerospace is responsible for the engineering development phase up to the Supplemental Type Certificate (STC) approval by the European Aviation Safety Agency (EASA) and US Federal Aviation Administration (FAA). Airbus contributes to the program with Original Equipment Manufacturer (OEM) data and certification support, while EFW leads the overall program, marketing and sales.

**Turkish Airlines selects GENx engines to power Boeing 787 Dreamliners**

GE Aviation's GENx-1B engines will power Turkish Airlines' 25 Boeing 787 Dreamliners and five

**Ultra Long Range A350 XWB completes first flight**



350-900 ULR Singapore Airlines take off

Photo: Airbus

The Ultra Long Range version of the A350 XWB, MSN 216, has successfully completed its first flight. The latest variant of the A350 XWB Family will enter service with launch operator Singapore Airlines in the second half of 2018. The aircraft powered by Rolls-Royce Trent XWB engines has embarked on a short flight test program to certify the changes over the standard A350-900 that will extend its range capability to 9,700 nautical miles. These changes include a modified fuel system that increases fuel carrying capacity by 24,000 liters, without the need for additional fuel tanks. The test phase will also measure enhanced performance from aerodynamic improvements, including extended winglets. With a maximum take-off weight (MTOW) of 280 tons, the Ultra Long Range A350 XWB is capable of flying over 20 hours non-stop, combining the highest levels of passenger and crew comfort with unbeatable economics for such distances. Altogether, Singapore Airlines has ordered seven A350-900 Ultra Long Range aircraft, which it will use on non-stop flights between Singapore and the US, including the world's longest commercial service between Singapore and New York.

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options, which were ordered last month. The airline also signed a 15-year TrueChoice™ Flight Hour agreement with GE for maintenance, repair and overhaul for the GENx-1B engines ordered. “The GENx engine offers the optimum reliability, utilization and fuel efficiency of any engine on the Boeing 787 Dreamliner and will properly suit Turkish Airlines’ needs as we continue to enhance our aircraft fleet with modern aircraft technologies,” said M. İlker Aycı, Turkish Airlines Chairman of the Board and the Executive Committee.

**United Airlines takes delivery of a 737 MAX 9**

United Airlines has taken delivery of its first 737 MAX 9 aircraft, from the Boeing Delivery Center in Seattle, WA. The new aircraft reduces fuel use and CO2 emissions significantly compared with older-generation aircraft. In honor of this eco-friendlier aircraft, United has given the MAX a new livery, similar to its fuel-efficient Boeing Dreamliner aircraft, so that employees and customers can easily recognize the plane with its superior fuel efficiency. United expects to take delivery of two more 737 MAX 9 aircraft this month and will have ten MAX 9s by the end of 2018. As previously announced, the aircraft will enter United’s schedule on June 7, with service between the airline’s hub at Houston’s George Bush Intercontinental Airport and five cities – Anchorage, Alaska; Austin, Texas; Fort Lauderdale, FL; Orlando, FL. and San Diego, Ca. The aircraft will operate on additional routes from Houston and Los Angeles International Airport starting June 29.

**MRO & PRODUCTION NEWS**

**Embraer signs agreement to support Belavia’s fleet**

Embraer Services & Support and Belavia Belarusian Airlines have signed an agreement for the support of Belavia’s fleet of Embraer

**Central Europe’s first HondaJet lands in Warsaw**



Central Europe’s first HondaJet lands in Warsaw

Photo: Honda Aircraft Company

HondaJet Central Europe has announced that the region’s first HondaJet has made its official debut with an appearance event at the Chopin-Warsaw Airport. The debut took place on April 12 and was attended by many high-level executives and dignitaries including His Excellency Satoru Takahashi, the Japanese Ambassador to Poland. Honda Aircraft Company was represented at the event by Simon Roads, Senior Division Director of Sales, and GE Honda Aero Engines was represented by Steven Shakhnaitis, Executive Vice President. The aircraft is owned by Chopin Vodka and is the first HondaJet available for private charter in Eastern Europe and charter throughout Europe, including the United Kingdom, Russia and Scandinavia. Delivered to Poland in early March, the Chopin HondaJet features many modifications tailored to the European market. The aircraft will be managed and operated by JetStory.

E-Jets. The deal will streamline Belavia’s fleet support and improve aircraft availability. In a multi-year deal, Embraer’s component support solution is being tailored to Belavia’s specific needs, offering customized exchange plus repair coverage for a wider scope of components, as well as access to a range of special tooling and ground support equipment needed for heavy maintenance checks, allowing Belavia to move those checks ‘in-house’. The program will support Belavia’s existing fleet of

two E175s and two E195s. The airline took delivery of another E175 aircraft last week and will receive another two E195s later this year.

**Porter Airlines invests in Sudbury maintenance base**

Porter Airlines has established an aircraft maintenance base at Greater Sudbury Airport, Ontario, Canada. This development contrib-

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utes to Porter servicing its fleet of 29 Bombardier Q400 aircraft and creates eight full-time positions at the airport. The base is located in a hangar owned by Sudbury Airport Community Development Corporation. Porter engineers perform daily overnight maintenance on aircraft that are returned to service the following day. Start-up costs for the project were partly supported by funding from the provincial government's Northern Ontario Heritage Fund Corporation. Porter Airlines currently operates up to three daily roundtrip flights between Sudbury and Billy Bishop Toronto City Airport. The airline is making significant investments in Northern Ontario this year, including opening a base for pilots and flight attendants in Thunder Bay.

**SR Technics and HK Express sign long-term Integrated Component Services agreement**

MRO service provider SR Technics has entered into an exclusive long-term agreement for Integrated Component Services with HK Express, a low-cost airline based in Hong Kong that provides services to countries across Asia Pacific. The agreement covers the carrier's growing A320 fleet. The 10-year contract covers component maintenance, pool access and logistical services for 20 Airbus A320ceo and 12 Airbus A320neo aircraft. In addition to providing support from its existing component distribution center in Kuala Lumpur, SR Technics will be establishing an Airbus A320 component pool in Hong Kong as part of the agreement. This strengthens its foothold as an ICS provider on the competitive Chinese market and places SR Technics in a solid position to attract other operators across the region.

**Philippine Airlines selects Airbus Flight Hour Services maintenance solution**

Philippine Airlines (PAL) has selected Airbus Flight Hour Services (FHS) to support the

**Airbus and Rolls-Royce sign UltraFan engine integration collaboration agreement**



Airbus RR sign UltraFan engine integration collaboration

Photo: Airbus

Airbus and Rolls-Royce have signed a collaboration agreement for the integration of Rolls-Royce's UltraFan® demonstrator for flight testing. The integration solutions demonstration will be co-funded by Clean Sky 2, the European Union research program focused on developing technology to reduce emissions. UltraFan is a scalable jet engine design suitable for wide-body or single-aisle aircraft and offers a 25% fuel efficiency improvement over the first-generation of Rolls-Royce Trent engines. One element of the UltraFan program is planning for ground and flight tests and to support this, Rolls-Royce has signed an agreement with Airbus to provide both nacelle and engine/aircraft integration architecture and technology enablers. Airbus' integration solutions will play an important part in achieving the overall fuel efficiency improvement of higher bypass ratio engines such as UltraFan, through innovative architecture and associated technologies. UltraFan features a new engine core architecture and lean-burn combustion system which will contribute to improved fuel burn efficiency and lower emissions, along with a carbon titanium fan blade system and composite casing which reduce weight. The engine also introduces a geared design to deliver efficient power at high-bypass ratios. For Airbus, the project will enable it to fully integrate the overall powerplant system – composed of engine, pylon and nacelle – onto future long-range aircraft products, as well as facilitating scalability for future short-range aircraft. It will also build on Airbus' expertise in advanced manufacturing technologies, such as high-deposition-rate additive manufacture, welded assembly and high production rate thermoplastics.

maintenance requirements of the Philippine flag carrier's A350-900 aircraft with the signing of an FHS-Components Maintenance contract, the first comprehensive maintenance solution in the Asia-Pacific region exclusive to PAL's fleet of six A350-900s. The Airbus FHS,

powered by Skywise, provides the highest reliability for operators of the A350 XWB. Under the agreement, Airbus will handle component services, repair, warehousing and transportation for PAL, supported by Airbus FHS pools in Hong Kong. It will allow for a proactive com-



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ponent engineering, with strong engineering focus that enables operators to predict in-service issues. This will lead to an improvement in operations by reducing delay, and helping to simplify troubleshooting. The Airbus FHS will be strengthened by Airbus’ data platform Skywise, taking advantage of state-of-the-art data hosting and analytics to optimize the airline fleet utilization. This new service will harness ‘big data’ to greatly enhance levels of operational performance compared with current industry technologies. PAL will receive the first of six A350-900s in July 2018. The FHS contract will support the airline in its operations to New York and other long-haul service to North America and Europe.

**HAECO Americas officially opens fifth hangar at PTI Airport**

HAECO Americas, a subsidiary of the HAECO Group with headquarters in Greensboro, North Carolina, USA, officially opened its newest and state-of-the-art fifth hangar at Piedmont Triad International (PTI) Airport, on April 24. The event was held inside the US\$60M hangar, which spans 250,000 ft<sup>2</sup> and is the largest maintenance space within the HAECO Americas portfolio. At full capacity, the fifth hangar will employ an additional 500 aircraft technicians and support staff. The new hangar can accommodate up to eight next-generation narrow-body aircraft, or two next-generation wide-body aircraft and two next-generation narrow-body aircraft. The hangar will also receive a Leadership in Energy and Environmental Design (LEED) certified rating, in keeping with HAECO’s commitment to its sustainability goals.

**Joramco adds B787 C check capability**

The Dubai Aerospace Enterprise (DAE) engineering division Joramco, has added the Boeing 787 C check to its existing capabilities. This addition has been approved by the Jordanian Civil Aviation Authority (JCARC) and

**Japan Coast Guard bolsters fleet with additional H225 order**



Japan Coast Guard

Photo: ©Nobuo OYAMA

Airbus Helicopters has secured an additional order of one H225 helicopter from the Japan Coast Guard (JCG), bringing JCG’s H225 fleet to ten units. JCG currently operates three AS332s and five H225s, both from the Super Puma family. With this new order, the customer’s Super Puma fleet will grow to 13 units by March 2021, becoming the largest Super Puma operator in Japan. The new H225 will join the rest of the fleet in security enforcement, territorial coastal activities, as well as disaster relief missions in Japan. The 11-ton-category twin-turbine H225 is the latest member of Airbus Helicopters’ Super Puma family which accommodates up to 19 passengers. Equipped with state-of-the-art electronic instruments and the renowned 4-axis autopilot system, the H225 offers outstanding endurance and fast cruise speed, and can be fitted with various equipment to suit any role.

the Federal Aviation Administration (FAA). Mr. Jeff Wilkinson, Joramco CEO commented: “Adding the B787 C check to the JCARC and FAA approvals is part of our ongoing efforts to develop Joramco’s airframe capabilities and expand our service offerings to our customers who are operating the next generation of aircraft,” adding: “This will be the first of many new approvals Joramco is seeking.”

**Exclusive DOA project for Magnetic MRO’s first Airbus A321neo engagement**

Magnetic MRO has successfully completed its first ever Airbus A321neo service delivery on the basis of a seat modification project supported by the company’s EASA-approved DOA services. Right after the low-cost carrier Primera Air took delivery of its first Airbus A321neo in April 2018, it was flown to Tallinn



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for Magnetic MRO to proceed with passenger cabin reconfiguration. The project scope comprised introducing the new business-class seats “Series 7”, manufactured by ACRO. Primera Air has become the launch customer following Magnetic MRO replacing its economy seats with these finest-quality seats, offering a premium design experience. Magnetic MRO is now preparing for the next Airbus A321neo and Boeing B737 MAX9 aircraft from Primera Air, following their releases from final assembly lines in the forthcoming weeks.

**SIA Engineering signs services agreement with SilkAir for Boeing 737 MAX aircraft**

SIA Engineering Company has announced the signing of a comprehensive Services Agreement with SilkAir (Singapore) for its latest fleet of Boeing 737 MAX aircraft. The Company currently has existing Services Agreements with SilkAir for its Airbus A320 and Boeing 737-800 aircraft. The new agreement for the 37 Boeing 737 MAX aircraft is for a term of 12 years, with an option to renew for a further period of 5 years. The Company’s support of SilkAir’s fleet covers a wide range of maintenance, repair and overhaul, and support services. The total revenue of this agreement is approximately SG\$484m (US\$363m) over the 12-year term.

**C&L Aviation Group and TAM ink agreement to install Saab 340B Cargo Conversions**

C&L Aviation Group has signed an agreement to market Sweden-based Täby Air Maintenance’s (TAM’s) Saab 340B Cargo Conversions in the Americas. As part of the agreement, C&L is also an approved sales and installation center. TAM’s EASA- and FAA-approved cargo conversion STC is well-proven and provides a highly cost-effective way to convert this fuel-efficient passenger aircraft into a profitable freighter, capable of carrying 1,280 cu ft of cargo. This alliance has TAM marketing the conversion in Europe and C&L marketing the conversion in the Americas. Combined, they provide a globally uniform cargo solution for the Saab 340 fleet. “We researched the available options in the market, and found working with TAM made perfect sense, not only because of the quality of the conversion kit, but because working with a consistent model throughout the world helps to preserve the integrity and value of the Saab fleet,” said C&L CEO Chris Kilgour.

**Ryanair increases “Gamechanger” orders to 135 as it targets 200 million annual passengers**



Ryanair exercises 25 Boeing 737 MAX 200 options

Photo: Ryanair

Ryanair has announced the exercising of 25 Boeing 737 MAX 200 “Gamechanger” options and in so doing now has 135 firm orders for the new higher-capacity variant of the 737 MAX 8. Ryanair first placed an order for 100 of the “Gamechanger” jets, with an option for a further ten, at the Paris Airshow in 2017. The new model has eight more seats than the Boeing 737-800NG. The “Gamechanger” aircraft will reduce fuel consumption by up to 16% and reduce noise emissions by 40%, while offering 4% more seats per flights (197 v 189). These aircraft, which are valued at more than US\$3bn at current list prices, increase Ryanair’s total orders to more than 650 Boeing 737’s since it first partnered with Boeing back in 1994, and form a critical part of the low-cost carriers plan to be servicing 200 million passengers per annum by 2024. Ryanair currently has the youngest European all-Boeing fleet with an average age of six and a half years.

**Rockwell Collins’ new Aspire™ seats taking flight on United Airlines 777-200 fleet**



The new Aspire™ seats

Photo: Rockwell Collins

Rockwell Collins’ new Aspire™ wide-body economy seat has entered service on a United Airlines’ Boeing 777-200 aircraft, the first in a 55-shipset retrofit program that begins delivery this spring. Aspire offers an improved, patented comfort system with an advanced kinematic mechanism that cradles the passenger during recline while preserving maximum living space for each passenger. Following the launch on the 777, the new Aspire seat will continue its success on the Boeing 787-10 Dreamliner with United and then onto the Airbus A350 XWB and other 787 aircraft. With other undisclosed customers, that more than doubles the initial 777 program deliveries.

MRO & PRODUCTION NEWS

**Airbus Helicopters and Schiebel successfully demonstrate the highest levels of Manned-Unmanned teaming capabilities**

Airbus Helicopters and Schiebel have tested Manned Unmanned Teaming (MUM-T) capabilities between an H145 platform and a CAM-COPTER® S-100 Unmanned Air System (UAS), thus becoming the first European helicopter manufacturers to demonstrate this technology with the highest level of interoperability (LOI\*5). The companies carried out test flights with the support of the Austrian Armaments and Defence Technology Agency. The two aircraft jointly flew different scenarios including the detection of objects hidden in places not accessible by traditional helicopters. The S-100 was controlled and piloted by an operator sitting in the helicopter. During the flights, the control was also temporarily handed over to a ground-based control station by the pilot in order to simulate the return of the manned helicopter for refueling. The trials carried out by Airbus Helicopters and Schiebel went up to MUM-T LOI 5. This allows the manned platform to exercise full control of the UAS including its take-off and landing. LOI 1, the lowest level, is the indirect receipt and /or transmission of sensor data obtained by the UAS to the manned aircraft.

FINANCIAL NEWS

**JetBlue's first quarter net income up 7%**

JetBlue Airways has reported its results for the first quarter 2018, with diluted earnings per share of US\$0.27. This compares to JetBlue's first-quarter 2017 diluted earnings per share of US\$0.24 cents. Pre-tax income was US\$110m, a decrease of 9.2% from the first quarter of 2017. Pre-tax margin was 6.3%, a 1.3-point decrease year over year. Net income was US\$88m compared to US\$82m in the first-quarter 2017, up 7%. First-quarter 2018 revenue per available seat mile (RASM) grew 6.1%, year over year, including the net benefit from holiday calendar placement. Operating expenses per available seat mile, excluding fuel (CASM ex-fuel) was 3.1%, within the initial guidance range, despite a lower completion factor and offset by timing of maintenance expenses. JetBlue signed a multi-year agreement with Pratt & Whitney for the purchase and maintenance of GTF engines, as work on the Structural Cost Program continues. JetBlue ended the quarter with approximately US\$779m in unrestricted cash

**Boeing signs global distribution agreement for GE Aviation T700 engines**



Aviall will market and distribute parts to support the GE Aviation T700 engine  
Photo: Boeing

Boeing, through its subsidiary Aviall, has signed a multi-year parts distribution agreement with GE Aviation to support the T700 engine. Under this agreement, Aviall will market and distribute components needed to support the maintenance, repair and overhaul of the GE T700 engine models that power civil and international military heli-

icopters for customers in more than 30 countries. Since entering production in 1978, the T700 has powered a variety of civilian, commercial and military applications that support transport, medical evacuation, air rescue, marine patrol and defense missions around the world. Aviall's worldwide distribution network will provide localized support for customers relying on the T700 engine for fleet readiness. As an established global aerospace and defense distributor, Aviall has a long-standing history of connecting customers with strategically positioned product solutions, designed to meet current and future needs.

**Lufthansa Technik Malta tests state-of-the-art technologies for aircraft overhaul**



Innovation Bay, Lufthansa Technik drone

Photo: LHT

On Malta, Lufthansa Technik is testing the future – from drone-based inspections of the aircraft skin to mobile 3-D scanners to exoskeletons. The innovation bay at Lufthansa Technik Malta will increasingly focus on reviewing state-of-the-art technologies for aircraft overhauls in the near future. The objective: Everything that proves itself in practice there will be integrated in the work process and rolled out to all other Lufthansa Technik base maintenance locations. For this purpose, Lufthansa Technik is cooperating both with startups and established technology companies. Innovative mobile 3-D scanners are currently being tested for use in making detailed measurements of structural damage. In addition, the company is examining a solution for drone-based inspections of the aircraft skin as well as exoskeletons from different providers that can relieve employees of physically strenuous work during production. More innovative technological solutions from external partners are set to follow. The selection is based primarily on top trends, but also on day-to-day requirements. "Our aim is to improve base maintenance processes and then use the improved processes across all our locations. This enables us to guarantee the same quality and standards at the highest technological level throughout the Lufthansa Technik Group's network," says Marcus Motschenbacher, CEO of Lufthansa Technik Malta. And Malta is just the start: Innovation bays are currently being planned at other Lufthansa Technik locations. This is an important contribution to shortening aircraft layovers for airline customers.

**FINANCIAL NEWS**

and short-term investments, or about 11% of trailing twelve-month revenue.

**Boeing HorizonX invests in 3-D printing startup Morf3D**

Boeing has announced its investment in Morf3D, an El Segundo, Calif.-based company specializing in metal-based additive engineering and manufacturing. Morf3D’s technology enables lighter and stronger 3D-printed parts for aerospace applications. Since Morf3D was established in late 2015, the company has produced 3-D-printed titanium and aluminum components for Boeing satellites and helicopters. With this investment, Morf3D will collaborate with Boeing to further develop manufacturing processes and engineering capabilities. “Developing standard additive manufacturing processes for aerospace components benefits both companies and empowers us to fully unleash the value of this transformative technology,” said Kim Smith, vice president and general manager of Fabrication for Boeing Commercial Airplanes and Boeing Additive Manufacturing leader. Morf3D’s metallurgy experts leverage a new set of additive manufacturing design rules to advance the technology and accelerate 3-D-printing capabilities for commercial use. The company utilizes state-of-the-art software combined with engineering expertise to significantly reduce mass and increase the performance and functionality of manufactured parts. Boeing HorizonX Ventures co-lead this Series A funding round. The Boeing HorizonX Ventures investment portfolio is made up of companies specializing in technologies for aerospace and

manufacturing innovations, including autonomous systems, energy storage, advanced materials, augmented reality systems and software, machine learning, hybrid-electric and hypersonic propulsion, and Internet of Things connectivity.

**Alaska Air Group reports first-quarter 2018 net income of US\$4 million**

Alaska Air Group has reported first-quarter 2018 GAAP net income of US\$4m compared to US\$93m in the first quarter of 2017. First-quarter adjusted net income excluding special items such as merger-related costs, an employee bonus awarded in connection with the Tax Cuts and Jobs Act, and mark-to-market fuel hedge accounting adjustments was US\$18m, compared to US\$124m in the first quarter of 2017. Alaska generated approximately US\$310m of operating cash flow and used approximately US\$235m for capital expenditures, resulting in approximately US\$75m of free cash flow for the first three months of 2018. Alaska held US\$1.5bn in unrestricted cash and marketable securities as of March 31, 2018.

**Boeing reports strong first-quarter results**

The Boeing Company has reported first-quarter revenue of US\$23.4bn, reflecting higher commercial deliveries and mix, defense contract volume and services growth. GAAP earnings per share increased to US\$4.15 and core earnings per share (non-GAAP) increased to US\$3.64 reflecting strong performance across the company. Commercial Airplanes first-quarter revenue was US\$13.7bn, reflecting higher deliveries and mix. First-quarter operating margin increased to 11.0%, reflecting

strong operating performance on production programs. During the quarter, Commercial Airplanes delivered 184 airplanes, including delivery of the first 787-10 Dreamliner to Singapore Airlines and delivery of the first 737 MAX 9 to Lion Air Group. The 737 program reached additional milestones during the quarter, including first flight of the 737 MAX 7 and firm configuration of the 737 MAX 10. The 737 program has captured over 4,400 orders since the launch of the 737 MAX, including a recent order from Jet Airways for 75 additional airplanes. Reflecting the strength of the cargo market, Boeing now plans to increase the production rate on the 767 program from 2.5 to 3 per month, beginning in 2020. Development on the 777X program remains on track as production began on the first 777X fuselage for structural testing. Commercial Airplanes booked 221 net orders during the quarter. Backlog remains robust with over 5,800 airplanes valued at \$415 billion.

**Finnair reports first-quarter profitable result**

For the first time in ten years Finnair has achieved a profitable comparable operating result in the first quarter. Revenue for the first quarter increased by 14.6% to €635.3m, compared to €554.4 in the first quarter 2017. Available seat kilometers (ASK) grew by 18.9% and passenger load factor (PLF) increased by 1.5 points to 82.9%. Comparable operating result was €3.9m compared to €-9.0m in 2017. Operating result was €6.0m, compared to €-10.0m in the first quarter 2017. Net cash flow from operating activities was €78.0m, compared to €23.9m in 2017 and net cash flow from investing activities was €-53.9m, compared to €145.1 the previous year. Unit revenue (RASK) decreased by 3.6%. Unit rev-

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enue at constant currency decreased by 1.7%. Unit cost (CASK) decreased by 5.8%, and unit cost at constant currency, excluding fuel, decreased by 4.5%. (€1.00 = US\$1.22 at time of publication.)

**Norwegian posts first-quarter loss**

Norwegian has reported its first-quarter earnings for 2018 with a result of NOK-46.2m. The quarter was characterized by international expansion, strong passenger growth and higher fuel costs. A successful private placement of shares was completed this quarter. The net result was NOK-46.2m, compared to NOK-1,491.5m the same quarter previous year. The net result of this quarter is positively affected by a financial gain from reclassification of the investment in Norwegian Finans Holding of NOK1,940m. The airline carried 7.5 million passengers in the first quarter, an increase of 12%. The capacity growth was 36% and the load factor was 84.5%. Norwegian has grown rapidly during the past years, expanding international traffic and adding new bases, destinations and markets to its portfolio, consequently, making the U.S. the market with the strongest growth. (US\$1.00 = NOK7.99 at time of publication.)

**Lufthansa Group continues successful development in first-quarter 2018**

The Lufthansa Group continues its successful path in the first quarter of 2018. The Group's network airlines increased their adjusted EBIT margin by 3.2 points to 2.4% in what is traditionally the weakest quarter for all airlines. Lufthansa Cargo achieved a strong adjusted EBIT-margin improvement: up 4.3 points to 10.1%. These improved earnings were largely offset by significant one-off costs at Eurowings from its growth in the context of the Air Berlin insolvency. As Lufthansa Technik and "Others & Consolidation" showed earnings declining to the levels of earlier years, the total Adjusted EBIT increased only slightly by €1m to €26m for the first-quarter. Despite new record numbers of passengers carried and high seat load factors, the total revenues of around €7.6bn (of which €5.8bn traffic revenues) for the first-quarter were broadly on the previous-year level due to the first-time implementation of the new IFRS 15 accounting standard. Without this, first-quarter revenues would have been increased by 4.5%. The net group result for the period improved by €11m to €-57m. (€1.00 = US\$1.22 at time of publication.)

**American Airlines' first-quarter 2018 profit down on higher fuel prices**

American Airlines Group has reported its first-quarter 2018 results with pre-tax earnings excluding net special items of US\$468m, a US\$193m decrease from the first quarter of 2017. First-quarter 2018 total revenue increased 5.9% year-over-year, to US\$10.4bn. Passenger revenue per available seat mile (PRASM) grew in all geographic regions, with notable strength in Latin America. Cargo revenue was up 18.8% to US\$227m due primarily to a 10.9% increase in volume and a 7.1% increase in cargo yield. Other revenue was up 10.0% to US\$694m. First-quarter total revenue per available seat mile increased by 3.5% compared to the first-quarter 2017 on a 2.3% increase in total available seat miles. Total first-quarter 2018 operating expenses were US\$10.0bn, up 9.8% year-over-year driven by a 25.7% increase in consolidated fuel expense. Had fuel prices remained unchanged versus the first-quarter 2017, total expenses would have been US\$412 million lower. Total first-quarter 2018 cost per available seat mile (CASM) was 15.15 cents, up 7.3% from first-quarter 2017. Excluding fuel and special items, total first-quarter CASM was 11.57 cents, up 2.8% year-over-year.

**Airbus reports first quarter 2018 consolidated financial results and confirms guidance for the full year**

"The first quarter performance reflects the shortage of A320neo engines and back-loaded aircraft deliveries as we indicated in the full-year disclosure. This is clearly shown in the financials," said Airbus Chief Executive Officer Tom Enders. "It's a challenging situation for all but based on the confidence expressed by the engine makers and their ability to deliver on commitments, we can confirm our full-year outlook. This still leaves us with plenty to do this year to reach the target of around 800 commercial aircraft deliveries." A total of 45 net commercial aircraft orders were received (Q1 2017: six aircraft) with gross orders of 68 aircraft including 20 A380s for Emirates Airline. The backlog by units totalled 7,189 commercial aircraft as of 31 March, 2018. Net helicopter orders increased to 104 units (Q1 2017: 60 units), including 10 H160s and 51 additional Lakota UH-72As for the US Army to bring the total orders in the programme above 450 helicopters. Consolidated revenues totalled €10.1bn (Q1 2017: €11.4bn), mainly reflecting lower commercial aircraft and helicopter deliveries. Airbus deliveries totalled 121 commercial aircraft (Q1 2017: 136 aircraft), comprising 95 A320 Family, 8 A330s, 17 A350 XWBs and one A380. Airbus Helicopters delivered 52 units (Q1 2017: 78 units) with its

revenues also reflecting the deconsolidation of services business Vector Aerospace in late 2017. Consolidated EBIT Adjusted – an alternative performance measure and key indicator capturing the underlying business margin by excluding material charges or profits caused by movements in provisions related to programmes, restructuring or foreign exchange impacts as well as capital gains/losses from the disposal and acquisition of businesses – totalled €14m (Q1 2017: €-19m).

Airbus' EBIT Adjusted of €-41m (Q1 2017: €-103m) mainly reflected the back-loaded aircraft delivery phasing, compensated by A350 improvements in both unit cost and price. Airbus Helicopters' EBIT Adjusted was stable at €-3m (Q1 2017: €-6m), supported by the Division's transformation efforts compensating market softness. Consolidated net income totalled €283m (Q1 2017: €409 million) with earnings per share of €0.37 (Q1 2017: €0.53) also including a positive impact mainly from the revaluation of certain equity investments. The finance result was €39m (Q1 2017: €-206m). The consolidated net cash position on March 31, 2018 was €9.8bn (year-end 2017: €13.4bn) with a gross cash position of €20.9bn (year-end 2017: €24.6bn).

**Ardian sells stake in London Luton Airport to AMP Capital**

Ardian Infrastructure reported that it sold its 49% stake in London Luton Airport (LLA) to AMP Capital, the Australian specialist global investment manager.

Ardian acquired its stake in the airport in 2013 and in conjunction with airport operator Aena, invested over £160 million (US\$222m) in the airport's development. The result has seen passenger numbers increase from 9.7 million in 2013 to 15.8 million in 2017, thus making LLA one of the UK's fastest-growing airports. The airport's route network has substantially increased since Ardian and Aena joined forces. Today it serves more than 140 destinations across Europe, Asia and Africa. In addition, the airport has also seen the creation of 3,000 jobs, either directly or indirectly. Of the deal, Mathias Burghardt, member of the Executive Committee of Ardian and Head of Infrastructure, said: "It has been great to see the growth and development of LLA over the last four and a half years. LLA is a perfect example of our strategy of developing airports through capacity expansion and improvement of passenger experience. Ardian's strategy of working with industrial partners and actively manage assets delivers superior returns to our investors."

MILITARY AND DEFENCE

**Czech Aero Vodochody and Israel Aerospace Industries strengthening ties by cooperating on light attack/trainer jets**

AERO Vodochody AEROSPACE, a Czech aircraft manufacturer with a background of supplying proven military light jets around the world, AERO Vodochody AEROSPACE a.s., Israel Aerospace Industries, a leader in defense systems technologies, have signed a partnership agreement relating to technical and marketing cooperation for the light combat L-159 aircraft. The cooperation draws on the tradition and experience of Aero Vodochody in the field of military light jet aircraft, the L-159 proven robust platform which has been successfully operated and tested in NATO joint operations, Red Air exercises and real combat missions, and IAI's innovative and cutting-edge technologies. The partners have agreed to integrate new state-of-the-art avionics and other solutions, on the L-159 platform, and to jointly market the aircraft. This approach is focused on further strengthening the already proven L-159 and enhance its position in the light-attack market.

**GE and the U.S. Army conduct T901 Preliminary Design Review for Improved Turbine Engine Program**

GE Aviation hosted the U.S. Army for the successful Preliminary Design Review (PDR) of the T901-GE-900 engine in early March. The T901 is GE Aviation's engine for the Improved Turbine Engine Program (ITEP), the U.S. Army's undertaking to re-engine its Boeing AH-64 Apaches and Sikorsky UH-60 Black Hawks. The PDR is a major milestone within the Technology Maturation and Risk Reduction (TMRR) contract, a \$102 million-, 24-month contract the Army awarded GE in September 2016. The Army is in the process of down selecting to one engine manufacturer for the Engineering and Manufacturing Development (EMD) phase by the end of 2018. The U.S. Army Contracting Command (ACC), based at Redstone Arsenal in Huntsville, Ala., released its request for proposals for the EMD last November. GE Aviation submitted the first phase of the proposal in February and is currently preparing the second and final phase of its proposal based on the engine configuration reviewed at the PDR. GE Aviation successfully completed a fit test with the Army this past December using a full-scale engine mockup. It demonstrated that the T901 engine seamlessly integrates with the Apache and Black Hawk airframes. GE's experience in powering these aircraft missions with the T700 engine over the past four decades has informed its development of the T901; it positions the Army and GE to make a smooth transition from the T700 to the T901. GE has invested



Santos Dumont airport Brazil

Photo: Air BP

**Air BP**, the international aviation fuel products and service supplier, has strengthened its presence in Brazil and will start supplying fuel at **Santos Dumont airport** (SDU/SBRJ). Santos Dumont complements Air BP's existing operations in Rio de Janeiro, which include **Galeão International airport** (GIG/SBGL), **Jacarepaguá** (JCR/SBJR), **Cabo Frio** (CFB/SBCB) and **Macaé** (MEA/SBME). This is an important addition to Air BP's network and comes in response to increased demand from the general and commercial aviation sectors. Air BP will be supplying Santos Dumont with Jet A-1 fuel and refueling will be carried out by an Air BP team of aviation fuel experts. The airport will join Air BP network, now 900 strong. Brazil is a key market for Air BP. The company markets fuel at 26 locations across the country providing fuel and services to general aviation, commercial aviation and military operations. Santos Dumont is ranked the sixth-busiest airport in Brazil based on passenger movements. In 2016, it handled over nine million passengers and currently serves predominately domestic routes.

more than US\$9bn in maturing commercial technologies applicable to the T901 and more than US\$300m to develop and test turboshaft-specific technologies ahead of the PDR. GE funded and successfully completed testing a T901 prototype engine, as well as component tests. These company-funded investments demonstrate GE's commitment to providing only the most advanced technologies available to the Warfighter and the Department of Defense.

OTHER NEWS

**Sabre Corporation**, the technology provider to the global travel industry, has signed a new distribution service agreement with **Fuzhou Airlines**, making Sabre the carrier's first global distribution system provider based outside of China. Operating as a joint venture with **Hainan Airlines** out of Fuzhou Changle International Airport, Fuzhou Airlines is a fast-growing Chinese carrier that serves routes to major cities within eastern China. The airline hopes its rising growth trajectory will also play a leading role in raising the profile of Fuzhou, the capital city of Fujian province, by driving greater cooperation across

the region. With a current fleet that consists of sixteen 737-800 airplanes, the airline also expects to add two more aircraft by the end of 2018. This agreement marks the sixth HNA Group carrier to join Sabre alongside **Hainan Airlines**, **Beijing Capital Airlines**, **Lucky Air**, **China West Air** and **Tianjin Airlines**.

**Fraport AG** and **Swissport** have signed a long-term lease agreement for a new air cargo facility in CargoCity South at Frankfurt Airport (FRA). Fraport is developing a new custom-built air cargo warehouse for Swissport at CargoCity South. The facility will have a surface of 16,900 m<sup>2</sup>, with an additional 2,200 m<sup>2</sup> to be used as office and social space. **Swissport International**, a market leader in ground handling, is also one of the world's largest air cargo handling companies, operating 133 warehouses around the globe. The attractive new warehouse will be optimally tailored to the requirements of modern air cargo handling. Built in line with the latest industry standards, the facility will be designed for flexible use. Construction is scheduled to begin in 2019. The completion and handover to **Swissport Cargo Services Deutschland GmbH** is planned for the beginning of the third quarter of 2020.

INDUSTRY PEOPLE

- ARGUS International has released that Executive Vice President **Bill Yantiss** has been appointed Chief Operating Officer, a new position within ARGUS International. Yantiss previously oversaw ARGUS' PRISM division, a provider of advanced Safety Management Systems solutions. Yantiss will be responsible for all operational activities within three ARGUS business units – Market Intelligence (MI), Partners and Resources for Operational Safety, LLC (PROS) and Professional Resources in System Management, LLC (PRISM). He will also be responsible for IT support for the three ARGUS software platforms: Aviation Risk Management Online Resource (ARMOR) – a safety and quality management tool, TRAQpak – an aviation intelligence tool, and ARGUS TripCHEQ – a due-diligence tool to validate commercial operator credentials to include flight crew and aircraft.

- ARGUS International has promoted **John Illson** to Executive Vice President of Professional Resources In System Management (PRISM), a wholly owned subsidiary of ARGUS International.

In his new role, Illson will be responsible for providing leadership and direction for the five independent PRISM divisions that deliver multiple services to the air carrier, business aviation, helicopter and unmanned market segments. He will report to **Bill Yantiss**, ARGUS International EVP and Chief Operating Officer.



Douglas Wettergren

- DoKaSch Temperature Solutions is expanding its USA operations with a new structure: DoKaSch Americas, based in San Francisco, California, which will be the first line of contact with clients in the USA and Canada. Senior industry expert **Douglas Wettergren** has joined the company as CEO, effective immediately. Wettergren's main duties will be sales and business development for DoKaSch's "flying-aircon warehouse" Opticooler® RAP and RKN to pharmaceutical and forwarding companies. Opticoolers are climate-controlled air cargo containers with unmatched reliability. Since last year, Opticoolers have also been based at designated locations in the US in order to provide them rapidly

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- Maintenance Reserves Seminar 2018**  
June 6, 2018 – Jury's Inn Hotel, Prague
- 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
- Aircraft Economic Life Summit 2018**  
November 20, 2018 – Gibson Hotel, Dublin, Ireland

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to clients across North America.

- StandardAero has appointed **Marc Drobny** as President of the company's Business Aviation division. Mr. Drobny replaces **Marc McGowan** who is retiring, after six years with StandardAero. Drobny most recently served as President of Executive Jet Management (EJM), the aircraft management and charter division of the Berkshire Hathaway subsidiary NetJets and one of the largest business jet operators in the world with over 200 aircraft and more than 50 different aircraft types under management.

- **Axel Flaig** is the new Chairman of the four-member Advisory Board of Bauhaus Luftfahrt. The Airbus manager succeeds **Dr. Rainer Martens** (MTU Aero Engines), who has held the position since May 2014. Martens ended his active career as Chief Operating Officer of MTU Aero Engines and consequently resigned from his position on the Supervisory Board of Bauhaus Luftfahrt. MTU Aero Engines is now represented by **Lars Wagner**. For Liebherr-Aerospace Lindenberg, **Josef Gropner** will return to the Advisory Board, who was a member of the Board from September 2008 to November 2011. The representation of IABG Industrieanlagen-Betriebsgesellschaft by **Prof. Dr. Rudolf F. Schwarz** remains unchanged.



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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	Oisín Riordan	oisin.riordan@orix.ie	+353 871774524
A319-100	ORIX Aviation	V2522-A5	1445	2001	Q4/2019	Sale	Oisín Riordan	oisin.riordan@orix.ie	+353 871774524
A320-200	Castlelake	V2527-A5	2288	2003	Q4/2018	Lease	Michael Hackett	michael.hackett@castlelake.com	+44 20 7190 6120
A320-200	Castlelake	V2527-A5	2161	2003	Q4/2018	Lease	Michael Hackett	michael.hackett@castlelake.com	+44 20 7190 6120
A320-200	ORIX Aviation	V2527-A5	3807	2009	Q1/2020	Lease	Matt McCoy	Matt.McCoy@orix.ie	+353 1824 4738
A330-200	Castlelake	PW4168A	223	1998	Q2/2018	Sale	Stuart MacGregor	stuart.macgregor@castlelake.com	+442071906138
A330-343 (2x)	SkyWorks Leasing	Trent 772B-60	various	2006	Sep 2018	Sale / Lease	Arif Husain	ahusain@skyworksleasing.com	+1 203-376-8164
A340-300	GA Telesis	CFM56-5C4	433	2001	Q1/2018	Sale	Kevin Milligan	kmilligan@gatelesis.com	+1 954-676-3111
A340-300	GA Telesis	CFM56-5C4	541	2003	Q1/2018	Sale	Kevin Milligan	kmilligan@gatelesis.com	+1 954-676-3111
B737-300	Aersale	CFM56-3	27707	1995	Now	Sale / Lease	Craig Wright	craig.wright@aersale.com	+1 305 764 3238
B737-300	Aersale	CFM56-3	27926	1995	Now	Sale / Lease	Craig Wright	craig.wright@aersale.com	+1 305 764 3238
B737-400	Safair Operations	Freighter	East Africa	Now	ACMI only		C. Schoonderwoerd	corneliss@safair.co.za	+27 11 928 0000
B737-400	Aersale	CFM56-3C1	24688	1990	Now	Sale / Lease	Craig Wright	Craig.Wright@aersale.com	+1 305 764 3238
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	Oisín Riordan	oisin.riordan@orix.ie	+353 871774524
B737-800	ORIX Aviation	CFM56-7B24E	40287	2012	Q1/2019	Sale / Lease	Oisín Riordan	oisin.riordan@orix.ie	+353 871774524
B737-800	ORIX Aviation	CFM56-7B26/3	38015	2011	Q1/2019	Sale / Lease	Cian Coakley	Cian.Coakley@orixaviation.hk	+852 9178 8055
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
DC8	Aersale	No engines	46094	1969	Now	Sale	Craig Wright	Craig.Wright@aersale.com	+1 305 764 3238

**Regional Jet / Turboprop 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
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
Do 328-100 (3x)	Jetran	PW119B/C	various	94-96	Now	Lease	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
E190AR (5x)	SkyWorks Leasing	CF34-10E5A1	various	06-07	Sep 2018	Sale / Lease	Arif Husain	ahusain@skyworksleasing.com	+1 203-376-8164
ERJ-170LR	AerFin	CF34-8E	1700123		Now	Sale / Lease	Mark Dunnachie	mark.dunnachie@aerfin.com	+44 2920 109 898
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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Multiple Engines GE / CFM / RB211	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
<b>AE3007 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(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
<b>CF34 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
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) CF34-10E5	Now - Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) CF34-10E7	Now - Lease				
(1) CF34-8E	Now - Sale / Lease	AerFin	Oliver James	Oliver.James@aerfin.com	+44 (0) 2920109898
(1) CF34-10E6	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CF34-10E7	Now - Lease				
CF34-8E(s)	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1 (513) 782-4272
(1) CF34-10E6	Now - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
(1) CF34-10E5A1	Now - Lease				
<b>CF6 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) CF6-80C2B1F	Now - Sale / Lease	AerSale. Inc.	Alan Kehoe	Alan.Kehoe@aersale.com	+353 879 393 534
(1) CF6-80C2A5	Now - Sale / Lease		Alan Kehoe	Alan.Kehoe@aersale.com	+353 879 393 534
(1) CF6-80C2B6	Now - Sale / Lease		Alan Kehoe	Alan.Kehoe@aersale.com	+353 879 393 534
(1) CF6-80C2B6F	Now - Sale / Lease		Matthew White	matthew.white@aersale.com	+353 1475 3005
(1) CF6-80C2B7F	Now - Sale / Lease		Matthew White	matthew.white@aersale.com	+353 1475 3005
(1) CF6-80C2B1F	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	
<b>CFM Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(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				
(1) CFM56-7B26/E	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CFM56-7B26	Now - Lease				
(1) CFM56-7B27	Now - Lease				
(4) CFM56-5C4/P	Now - Sale / Lease	Castllake	Stuart MacGregor	stuart.macgregor@castllake.com	+44 207 190 6138
(2) CFM56-3C1	Now - Sale / Lease	AerSale. Inc.	Alan Kehoe	Alan.Kehoe@aersale.com	+353 879 393 534
(1) CFM56-5C4	Now - Sale / Lease				
(2) CFM56-5A	Now - Sale	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
(1) CFM56-7B20 TRUEngine™	Now - Sale / Exchange	CFM Materials	Jimmy Hill	Jimmy.Hill@cfmmaterials.com	+1 214-988-6670
(1) CFM56-7B24 TRUEngine™	Now - Sale / Exchange				
(1) CFM56-7B27 TRUEngine™	Now - Sale / Exchange				
(1) CFM56-5B4/P TRUEngine™	Now - Sale / Exchange				



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# THE AIRCRAFT AND ENGINE MARKETPLACE

## Commerical Engines (cont.)

(1) CFM56-5C4/P	Now - Sale	AerFin	Oliver James	Oliver.James@aerfin.com	+44 (0) 2920109898
(4) CFM56-5C4	Now - Sale				
(1) CFM56-5B	Now - Sale / Lease				
(1) CFM56-7B	Now - Sale / Lease				
(1) CFM56-5B	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@werner aero.com	+1-703-402-7430
(1) CFM56-7B	Now - Sale/Lease/Exch.				
(1) CFM56-5B3/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	Ann Lee	alee@willislease.com	+1 (415) 408 4769
(1) CFM56-7B24/3	Soon - Lease				
<b>CT7 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
CT7-9B	Sale	C&L Aviation Group	Martin Cooper	martin.c@cla.aero	+1 207-217-6106
<b>JT8D and JT9D Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) JT8D-219	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1 954 676 3111
<b>GEEx Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(2) GEEx	Soon - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
<b>LEAP Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(2) LEAP-1A33	Soon - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
(1) LEAP-1B28	Soon - Lease				
<b>PW Small Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) PW121 (Dash 8)	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) PW123B/D/E	Now - Sale / Lease				
(1) PW124B	Now - Sale / Lease				
(1) PW121 (ATR)	Now - Sale / Lease				
(1) PW127E/F/M	Now - Sale / Lease				
(1) PW150A	Now - Sale / Lease				
(2) PW121 (ATR)	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	ddesaulniers@willislease.com	+1 415 516 4837
(2) PW121-8	Now - Sale/Lease/Exch.				
(1) PW123	Now - Sale/Lease/Exch.				
(1) PW127	Now - Sale/Lease/Exch.				
(2) PW150A	Now - Sale/Lease/Exch.				
(1) PW127M	Now - Sale/Lease/Exch.				
(2) PW127F	Now - Sale/Lease/Exch.				
(2) PW124B	Now - Sale/Lease/Exch.				
(1) PW120A	Now - Sale / Lease	Regional One	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
(1) PW120	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) PW123E	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(4) PW126	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) PW121	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
PW119B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
PW119B	Now - Lease				
PW120A	Now - Lease				
PW121 (ATR)	Now - Lease				
PW124B	Now - Lease				
PW123B	Now - Lease				
PW125B	Now - Lease				
PW127F	Now - Lease				
PW150A	Now - Lease				
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
<b>PW4000 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(2) PW4056-1	Now - Sale/Lease/Exch.	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111

# THE AIRCRAFT AND ENGINE MARKETPLACE

## Commerical Engines (cont.)

(1) PW4168A	Soon - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
(2) PW4168A (unserviceable)	Q2/2018 - Sale	Castlelake	Stuart MacGregor	stuart.macgregor@castlelake.com	+44 207 190 6138
(1) PW4056-3	Now - Sale/Lease	Jet Midwest	Kevin Lee	engines@jetmidwest.com	+1-310-652-0296
(1) PW4060-3	Now - Sale / Lease	AerSale. Inc.	Matthew White	matthew.white@aersale.com	+353 1475 3005
(1) PW4062-3	Now - Sale / Lease		Matthew White	matthew.white@aersale.com	+353 1475 3005
(1) PW4158-3	Apr 18 - Lease		Alan Kehoe	Alan.Kehoe@aersale.com	+353 879 393 534
(1) PW4056-3	Now - Sale / Lease		Alan Kehoe	Alan.Kehoe@aersale.com	+353 879 393 534
<b>RB211 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) RB211-535	Now - Sale / Lease	Jet Midwest	Dave Williams	dave.williams@jetmidwest.com	+1-817-791-4930
(1) RB211-535E4	Apr 18 - Sale / Lease	AerSale. Inc.	Matthew White	matthew.white@aersale.com	+353 1475 3005
<b>Trent Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(3) Trent 800	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(1) Trent 892	Now - Sale/Lease/Exch.	AerSale. Inc.	Matthew White	matthew.white@aersale.com	+353 1475 3005
(2) Trent 892	Now - Sale / Lease	TrueAero, LLC.	Matt Parker	mparker@trueaero.com	+1 469-607-6110
(4) Trent 556	Now - Sale / Lease				
(1) Trent 772B	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Bobby Janagan	bobby.janagan@rolls-royce.com	+44 20 7227 9078
<b>V2500 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
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	Ann Lee	alee@willislease.com	+1 (415) 408 4769
(1) V2533-A5	Soon - Lease				
(1) V2527-A5	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) V2530-A5	Now - Lease				
(1) V2527	Now - Sale / Lease	AerFin	Oliver James	Oliver.James@aerfin.com	+44 (0) 2920109898
(1) V2533-A5	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@wernerero.com	+1-703-402-7430

## Aircraft and Engine Parts, Components and Misc. Equipment

Description		Company	Contact	Email	Phone
(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) GTCP331-500	Now - Sale				
(2) GTCP331-500B	Now - Sale/Lease/Exch.				
(1) APS 3200	Now - Sale/Lease/Exch.				
(1) GTCP36-150RJ, (2) GTCP36-100M, (1) RE220RJ, (1) PW126 RGB, (1) PW901A (1) APS1000-C12, (1) APS1000-C3	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
GTCP131-9A (2), GTCP131-9B(2)	Now - Lease	REVIMA APU	Olivier Hy	olivier.hy@revima-apu.com	+33(0)235563515
GTCP331-200, GTCP331-250	Now - Lease				
APS500C14(3), APS1000C12(2), APS2000	Now - Lease				
APS2300, APS3200(2), APS5000(2)	Now - Lease				
PW901A(4), PW901C(2)	Now - Sale / Lease				
TSCP700-4E	Now - Sale				
Neutral CFM56-5B & CFM56-7B QEC Kits	Now - Sale	CFM Materials	Michael Arellano	michael.arellano@cfmmaterials.com	+1 214-988-6676
(3) APS2300, (1) GTCP331-350C	Now - Sale / Lease	AirFin	Nick Filce	Nick.Filce@aerfin.com	+44 7770 618 791
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, APS3200, APS2300, GTCP85-129H			Rich Lewsley	rlsley@logix.aero	+44.79.0021.8657
APU GTCP 331-500	Soon - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
Engine stands now available	Now - Lease				
(2) GTCP131-9B, (2) GTCP131-9A	Now - Sale / Lease	GA Telesis	Dave Dicken	ddicken@gatelesis.com	+1 954-676-3111
ENGINE STANDS: Trent 800, PW4000 112"/V2500 / CFM56/ PW2000 & Bootstrap kits		National Aero Stands		support@stands.aero	+1 305-558-8973
GTCP131-9A, GTCP 131-9B	Now - Sale / Lease	Werner Aero Services	Julien Levy	jlevy@Wernerero.com	+1 201-674-9999
GTCP36-300A, 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@lhaero.com	+49-6731-497-368