

## Weekly Aviation Headline News

### WORLD NEWS

#### Finnair granted credit support exceeding €100m

As a part of Finnair's rebuild programme, the company has been granted export credit support more than 100 million euros from the export credit agencies of Germany, France, and the United Kingdom. Credit support has been offered to qualified purchasers of Airbus aircraft and, in this case, it has been granted for the Airbus A350-900 aircraft that was delivered to Finnair in September 2020. Finnair has mandated JPMorgan Chase Bank, N.A., London Branch to arrange the financing. Finnair has ordered a total of 19 new A350-900 XWB aircraft from Airbus, of which 16 have been delivered as of September 1, 2020.

#### British Airways launches new services from Southampton

British Airways is launching a new summer schedule directly connecting England's south coast with holiday destinations in Spain, Italy, Portugal, Greece, France and Germany. Under a new agreement with Southampton Airport, the airline will operate up to 17 flights each weekend to 11 locations between 1 May and 31 October 2021.

#### UK's Teesside International Airport security overhaul

Work is under way on a £3million overhaul of Teesside Airport's check-in and security areas to help welcome thousands of extra passengers through its doors for its expanded 2021 summer season. New check-in desks, baggage belts and a cutting-edge 3D hold baggage scanner that can instantly detect threats including explosives are being installed. Waiting times through security will also be cut due to new scanners, which are already in use, that will reduce the need for physical checks and passengers will no longer need to remove liquids and electronics from bags and pass them through separately.



Frontier will make use of Boeing's digital services.

Photo:  
Frontier Airlines

### Boeing supports Frontier's flight operations

With new flight planning digital solutions

Boeing announced a new 10-year agreement with North American carrier Frontier Airlines to implement a range of crew, flight-planning and operations tools to enhance efficiency for the airline.

Frontier's operations from day one following implementation," said Brad Lambert, vice president of Flight Operations for Frontier Airlines. "From maintenance and operational planning to day-of and

In addition to its digital navigation and charting services from Boeing, Frontier Airlines will use a new Jeppesen digital solutions suite that provides day-of-operations decision-support tools, including: Flight-planning and scheduling services to enhance flight operations and enable on-time departures and efficient routing. Crew management, tail assignment and operations-control tools that optimise schedules and aircraft utilisation in

These digital solutions from Boeing's Jeppesen product range provide fleet-wide cost savings across regional and international routes, enhance airline crew-planning processes and increase operational reliability.

**"As commercial aviation emerges from the COVID-19 pandemic, Frontier Airlines is poised to continue its exceptional growth."**

*Ted Colbert, President, Boeing Global Services*

"We are fully confident that these robust Jeppesen flight-planning and operational tools will bring tremendous benefit to

irregular operations, the Jeppesen automation and crew-management tools will complement our low-cost business model while contributing to our system reliability and efficiency."

the short- and long-term planning horizon, including day-of-operation issue detection and schedule recovery to minimise issues due to unexpected events.

*Continued on page 3*

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“As commercial aviation emerges from the COVID-19 pandemic, Frontier Airlines is poised to continue its exceptional growth, utilising Boeing’s analytics-powered tools to maximise performance and reduce costs during this critical moment for our industry,” said Ted Colbert,

president, and CEO of Boeing Global Services. “This is a great example of our partnership with customers like Frontier to turn Boeing’s unparalleled digital expertise into operational bottom-line advantages.”

## AIRCRAFT & ENGINE NEWS

### NAC delivers one De Havilland Dash 8-400 on lease to Link PNG

Nordic Aviation Capital (NAC) has confirmed it has delivered one De Havilland Dash 8-400, MSN 4184, to Link PNG on lease. The aircraft was originally scheduled to deliver in 2019, however, due to the impact of COVID-19 on travel restrictions the delivery was postponed. The improving conditions and easing of restrictions in Papua New Guinea have allowed for the delivery to take place this month. MSN 4184 is the final aircraft to deliver as part of a two aircraft transaction. Link PNG is a regional carrier based at Port Moresby Jacksons International Airport. The carrier is a subsidiary of Air Niugini, established as part of the airlines’ restructure. Link PNG operates on a separate air operator’s certificate, serving provincial and district routes across Papua New Guinea. The carrier operates with turboprop aircraft.

## Orders and deliveries – Boeing and Airbus

### Airbus v Boeing: Orders and Deliveries

November 2020 YTD

Airbus			Boeing		
Type	Orders	Deliveries	Type	Orders	Deliveries
A220	31	32	737	-488	15
A320 Family	267	379	747	-1	4
A330	-5	14	767	11	24
A350	4	51	777	2	22
A380	0	1	787	22	53
<b>Total</b>	<b>297</b>	<b>477</b>	<b>Total</b>	<b>-454</b>	<b>118</b>

Source: Airbus

Source: Boeing

Airbus delivered a total of 64 aircraft in November to 31 customers. These included the first A320neo to Sky Express. Total number of deliveries for 2020 stands at 477 deliveries to 80 operators.

Boeing registered 27 orders in November including 25 737MAX aircraft from Virgin Australia. A total of seven aircraft were delivered predominantly in the freighter sector.

## Deutsche Aircraft to shape future of aviation as D328eco™ aircraft accelerates transition to zero emissions aircraft

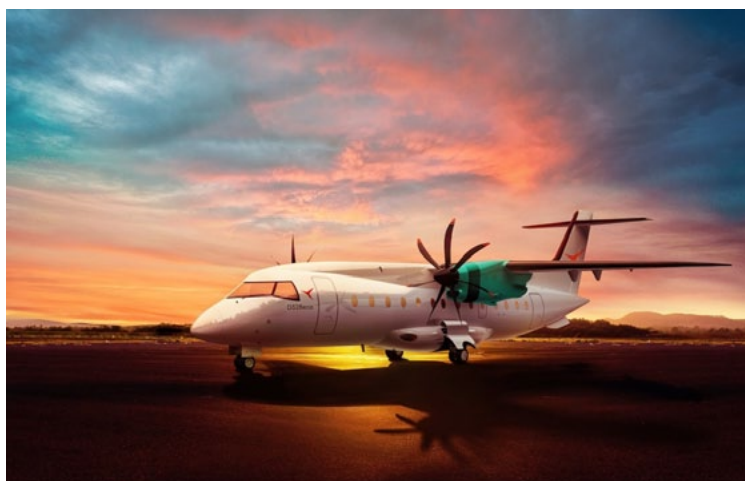


Photo: Deutsche Aircraft unveils plans to develop the D328eco

Deutsche Aircraft, the new purpose-driven German aircraft Original Equipment Manufacturer (OEM), has unveiled plans to develop the D328eco, a game-changing platform that will align the future of aviation towards a zero-emission flight objective. Deutsche Aircraft is built on the heritage and expertise of 328 Support Services GmbH, the Type certificate holder of the Dornier 328 aircraft (D328®). Together with participation of the German Government, Deutsche Aircraft will lead the way in a new era of clean aviation through the development of the D328eco platform, a more efficient, cost-effective and environmentally friendly aircraft. The D328eco will offer an alternative, eco-efficient solution within the sub-50-seat regional commuter and multi-role aircraft markets, which the OEM plans to introduce by 2025. State-of-the-art flight deck design and capabilities offered by the latest avionics’ suite will target future single pilot operation for greater operational efficiency. Pratt & Whitney PW127S engines and a SAF (Sustainable Aviation Fuel) compatible airframe, set the stage for the D328eco to change the way the world flies while

reducing our carbon footprint. The stand-up and new cabin design will offer increased comfort and compliance with the latest health and safety requirements. In line with Deutsche Aircraft’s sustainability objectives, REACH compliant manufacturing processes will be adopted in a new state-of-the-art, Industry 4.0, paperless Final Assembly Line (FAL) in Leipzig, Germany. The project is anticipated to boost local economies throughout its supply chain, in addition to generating indirect jobs in supporting industries.

# During uncertain times, is that next overhaul really needed?

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## First A220 for JetBlue completes inaugural test flight



JetBlue's A220 test flight from the Mobile Aeroplex at Brookley in Mobile, Alabama  
Photo: Airbus

The first Airbus A220-300 for JetBlue Airways has completed its inaugural test flight from the Mobile Aeroplex at Brookley in Mobile, Alabama. The aircraft performed its test sequences and landed safely. The first of 70 A220 aircraft for JetBlue is scheduled to be delivered to the New York-based airline before year end. The airline's first A220 aircraft debuted this fall featuring a brand-new tailfin livery called "Hops", designed by JetBlue. The aircraft will be outfitted with a modern single-class cabin configuration and carry passengers on many short trips together as part of a larger journey, commonly referred to as "hopping." The A220 aircraft's combined range and seating capacity add flexibility to JetBlue's network strategy, including the possibility to schedule the aircraft on transcontinental flights. The A220 aircraft's unequaled economics also open new route possibilities that were not feasible with previous generation aircraft.

## Emirates welcomes first of three Airbus A380s to be delivered in December

Emirates has welcomed MSN A6-EVL, its 116<sup>th</sup> A380 as the first of three A380s to join its fleet in 2020. The aircraft arrived in Dubai on December 5, powered by a blend of conventional jet fuel and sustainable aviation fuel. Emirates is scheduled to receive two more A380 aircraft later this month, one of which will feature its long-awaited signature Premium Economy product. Since its entry into the Emirates fleet 12 years ago, the A380 has been the airline's flagship and a customer favourite, captivating the imagination of travellers by providing an unmatched travel experience.



Photo: Emirates welcomed its 116<sup>th</sup> Airbus A380 into its fleet

## Ampaire conducts first airline flight trials for hybrid-electric aircraft



Photo: Ampaire Electric EEL aircraft

Los Angeles-based Ampaire, a global leader in electric aviation, has completed a demonstration flight of a hybrid-electric aircraft along an actual airline route. The company flew its Electric EEL aircraft on November 22nd on a 20-minute flight from Maui's Kahului Airport across the island to Hana and back on a single charge. Ampaire is now flying the route regularly in a one-month demonstration program with Hawai'i-based Mokulele Airlines, one of 15 airlines to have signed a Letter of Interest with the company. It is the first use of a hybrid-electric aircraft under the FAA's Experimental-Market Survey category, allowing Ampaire to fly with its crew and essential personnel for crew training and other exploratory market activity. The flight trials are supported by Elemental Excelsior, a global climate-tech accelerator. The Electric EEL technology demonstrator used in the Mokulele trials is an upgrade of the popular six-seat Cessna 337 twin-engine piston aircraft. The aircraft has a

300-horsepower piston engine in the rear and a 160 kW-capable electric power unit in front, plus a battery pack carried in an under-fuselage aero-optimized shell. Due to the contribution of the electric power unit, fuel consumption and CO2 emissions are reduced by approximately 40-50%.



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## EcoPulse™ hybrid aircraft demonstrator achieves first key milestone

The EcoPulse™ distributed propulsion hybrid aircraft demonstrator – which is being developed by Daher, Safran and Airbus with the support of France's CORAC civil aviation research council – has successfully passed its Preliminary Design Review as a first key step toward validating the project's feasibility and firming up the architecture for a first flight scheduled in 2022. Incorporating a distributed propulsion configuration from Daher, Safran and Airbus, this shared hybrid aircraft project has the goal of helping to transform the aviation sector. EcoPulse™, which was unveiled at the 2019 Paris Air Show, is backed by the French government – with a reaffirmation of support coming in the framework of France's recovery plan presented last June. By laying the framework for light aircraft by the end of the decade, it will allow the development of technologies that reduce the environmental footprint of future commercial aircraft, thus contributing to the air transportation sector's decarbonization objectives by 2050. After more than one year of development based on a light aircraft platform supplied by Daher, the project has reached a key milestone with the successful completion of its Preliminary Design Review (PDR), which enabled the validation and freezing of the demonstrator's baseline configuration, as well as confirming the hybrid distributed propulsion system's level of safety and compatibility with the aircraft. The project is now entering the assembly and integration phase at Daher, at its Tarbes, France site, with systems supplied by Safran and Airbus. The start of final assembly is planned for late 2021, with the first flight scheduled to take place in 2022.



The EcoPulse™ successfully passed its Preliminary Design Review

Photo: Daher

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## MRO & PRODUCTION NEWS

### GA Telesis Engine Services signs cooperative agreement with Atitech S.p.A.

GA Telesis Engine Services OY (GATES) has signed a new cooperative agreement with the airframe base/heavy maintenance provider Atitech S.p.A. of Naples, Italy. GATES and Atitech, both highly experienced in their respective fields, have joined forces to provide turn-key solutions to Atitech's customers for activities not under its capability, such as engine shop visits. The first two CFM56-5B engines were shipped to GATES' facility in Helsinki, Finland, for a full performance restoration shop visit. "This cooperation with GATES marks an achievement again in Atitech's pursuit to provide great customer service. Long-term partnerships with our customers are vital in the field of heavy airframe maintenance, and we are fully committed to developing our service offering towards our customers," said Giovanni Lettieri, Atitech Chairman.

### Rolls-Royce and Infosys announce strategic partnership for aerospace engineering in India

Rolls-Royce and Infosys, a global leader in next-generation digital services and consulting, signed a strategic partnership for sourcing engineering and R&D services for Rolls-Royce's Civil Aerospace business. As part of the overall partnership, Rolls-Royce will transition a significant part of its engineering center capabilities for Civil Aerospace in Bengaluru to Infosys. Leveraging its expertise in core engineering services, digital transformation capabilities, and Rolls-Royce's product knowledge acquired through the partnership, Infosys will provide a full range of high-end engineering and R&D services integrated with advanced digital service to Rolls-Royce. Over the past decade, Rolls-Royce established a multidisciplinary engineering centre in Bengaluru, and this has been an integral part of Rolls-Royce Engineering and R&D services. The center covers a mix of engineering capabilities spanning the full range of sub-functions and specialisms in R&D. Going forward, Rolls-Royce will continue these complex engineering activities in India in partnership with Infosys.

### VAS Aero Services acquires four PW4000 engines for tear-down

VAS Aero Services, a global leader in aviation logistics and aftermarket services, has contracted with Boeing to acquire four Pratt & Whitney PW4000-94 Phase 3 engines for tear-down and distribution of the surplus parts. This deal contributes to additional engine models currently in tear-down by VAS for spare parts re-distribution. The Boeing PW4000-94 Phase 3 engines will be disassembled in the U.S. and parts

### Honeywell appoints EPCOR global licensed repair shop for 331-350 series APUs



331-350C APU

Photo: Honeywell

Honeywell has appointed EPCOR (European Pneumatic Component Overhaul and Repair) as the global and sole licensed repair shop for its 331-350 series Auxiliary Power Units (APUs). EPCOR is a fully owned subsidiary of Air France Industries KLM Engineering & Maintenance, part of the Air France KLM Group, responsible for repair and overhaul activity for APU and mechanical components. EPCOR will be the global and sole Honeywell licensed repair shop for the 331-350 Series APUs, providing inspection, repair, overhaul and upgrades. These APUs are installed on the Airbus 330 and Airbus 340 fleets. The company will serve customers worldwide from its state-of-the-art facility in Amsterdam. Honeywell's appointment of EPCOR is an expansion of an existing relationship. The company is one of Honeywell's oldest channel partners and has been its main APU partner in Europe, Middle East, Africa and India region, having repair capabilities for Honeywell's 331 and 131 Series APUs

### Liebherr to Overhaul Landing Gears for Austrian Airlines



Liebherr Aerospace supplies landing gear systems for the E-Jet E1 family

Photo: Austrian Airlines

Liebherr-Aerospace has been selected by Austrian Airlines to overhaul the landing gears of the airline's 17 Embraer E-Jet E195 aircraft. The first landing gear is expected to arrive end of December 2020, at Liebherr-Aerospace Lindenberg GmbH in Lindenberg (Germany), where the overhaul activities will be performed. The complete landing gear system for the E-Jet E1 family (E170/E175/E190/E195) has been developed, manufactured and certified by OEM Liebherr-Aerospace Lindenberg GmbH, Liebherr's center of competence for flight controls, landing gear systems, gears, gearboxes as well as electronics.

## MRO & PRODUCTION NEWS

will be re-certified and marketed through VAS's worldwide airline operator customer base.

### GA Telesis purchases one PW4056-3 engine from Air Atlanta Icelandic for disassembly

GA Telesis, LLC (GAT) announces the purchase of one Pratt & Whitney PW4056-3 engine last operated by Air Atlanta Icelandic. The transaction was recently concluded by the Component Solutions Group (CSG), whereas the engine will be immediately inducted for disassembly. The removed material will be directly routed to repair with GA Telesis' approved MRO vendor base. Upon completion, the used serviceable material (USM) will be made available to GA Telesis' airline and MRO customers worldwide within the next three months.

## FINANCIAL NEWS

### Norwegian initiates reorganization process in Norway

Following Norwegian being made subject to the examinership process in Ireland on December 7, the company now wants to enter into a supplementary Norwegian reconstruction process. "We will now concentrate on working towards our goal of reducing company debt, reducing the size of our aircraft fleet, and ensuring that we are a company that investors will find attractive. We will be ready to meet the competition for customers after the COVID-19 pandemic," said Norwegian CEO Jacob Schram. Norwegian filed for the Irish Examinership on November 18. The processes will not have an impact on the current business. The company will continue to operate its route network. Both its bonds and shares will continue to trade as normal on the Oslo Stock Exchange. As earlier stated, Norwegian Reward will continue as normal honouring and earning CashPoints for its members.

### Lufthansa will have shed 27,000 jobs by year end – further cuts expected in 2021

According to German newspaper Bild am Sonntag, Lufthansa, along with its subsidiaries Eurowings, Swiss, Austrian and Brussels Airlines will have cut its workforce by 27,000 by the end of 2020 to help mitigate the catastrophic effect of the COVID-19 pandemic on air travel. 20,000 of those jobs will employees based outside Germany, while approximately 7,500 staff will no longer be under the group's umbrella when its catering unit, LSG, is sold. The newspaper further reports that Germany's flagship carrier will shed a further 10,000 jobs in 2021 as it does not anticipate passenger numbers will recover to

## Pratt and Whitney and MTU Maintenance send strong signal to aftermarket



PW1100G-JM test bed

Photo: MTU

International Aero Engines and MTU Maintenance have signed an 11-year PW1100G-JM aftermarket agreement, committing themselves to further investment in the engine's aftermarket network. The contract covers a significant quantity of shop visits per year, in addition to the existing and substantial commitments to the program. This is a clear and strong signal to the industry that, despite the current unprecedented crisis it is facing, both companies still believe in the mid- and long-term success of the PW1100G-JM engine program – part of the GTF family and flying on the A320neo. MTU Maintenance has completed over 20,000 shop visits in 40 years and currently has 30 engine models in its portfolio – including the PW1100G-JM. It performs over 1,000 shop visits per year at its worldwide locations. PW1100G-JM shop visits are currently performed at MTU Maintenance Hannover in Germany and EME Aero in Poland.

## Joby Aviation welcomes new US\$75 million investment from Uber as it acquires Uber Elevate

Joby Aviation, a transportation company developing an all-electric, vertical take-off and landing passenger aircraft, which it intends to operate as early as 2023, has released that Uber Technologies has agreed to invest a further US\$75 million in Joby as part of a broader transaction involving the acquisition of Uber Elevate by Joby and an expanded partnership between the two parent companies. This investment comes in addition to a previously



Photo: Joby Aviation

undisclosed US\$50 million investment made as part of Joby's Series C financing round in January 2020. Under the terms of the deal, Joby Aviation will acquire Uber Elevate, while the two parent companies have agreed to integrate their respective services into each other's apps, enabling seamless integration between ground and air travel for future customers. Established in 2016, Uber Elevate has played an important role in laying the groundwork for the aerial ridesharing market by bringing together regulators, civic leaders, real estate developers and technology companies around a shared vision for the future of air travel. Their software tools enabling market selection, demand simulation and multi-modal operations are at the center of their work, and form the basis of this future-focused deal.

## FINANCIAL NEWS

pre-pandemic levels until 2025. Having secured a €9 billion government bailout earlier in the year, Lufthansa has already burned through €3 billion of it. According to Chief Executive Carsten Spohr last month, Lufthansa has 27,000 too many full-time equivalent staff, though it had promised unions not to make forced redundancies in return for cuts to bonuses and other payments. A deal to cut costs and save jobs at Lufthansa has won the support of a majority of the Verdi trade union members who work for the German airline as ground staff, according to the results of a ballot. A formal announcement is expected today (Monday.) The deal with Verdi followed months of on-off talks, during which the union accused management of seeking to cut jobs even after taking a bailout to keep its planes flying. (€1.00 = US\$1.21 at time of publication.)

### Veritas Capital to acquire Northrop Grumman's federal IT and Mission support business

Veritas Capital and Northrop Grumman Corporation have announced that Peraton, an affiliate of Veritas Capital, has signed a definitive agreement to acquire Northrop Grumman's federal IT and mission support services business for US\$3.4 billion in cash. The transaction is expected to close in the first half of 2021, subject to regulatory approvals and customary closing conditions. For 2020 the Northrop Grumman business, in aggregate, is expected to generate revenue of approximately US\$2.3 billion. Northrop Grumman expects to use the sale proceeds primarily for share repurchases, to offset dilution from the transaction, and for debt retirement. On closing, Veritas expects to combine the Northrop Grumman business with Peraton, a Veritas portfolio company that provides mission critical technology solutions to government customers. "This divestiture allows us to drive value and reflects our strategy of focus on growing core businesses where technology and innovation are the key differentiators," said Kathy Warden, chairman, chief executive officer and president, Northrop Grumman. "We expect to create compelling value to our shareholders through this transaction and execution of our capital allocation strategy."

## MILITARY AND DEFENCE

### AAR to continue C-40 contractor logistics support with Naval Air Systems Command

AAR has been awarded a US\$148,357,084 firm-fixed-price, indefinite-delivery/indefinite-quantity follow-on contract with Naval Air

### Pandemic-impacted TUI posts annual loss of €3.0 billion



TUI

Photo: AirTeamImages

Only days after TUI, the Anglo-German multinational travel and tourism company headquartered in Hanover, Germany secured a third round of emergency funding for €1.8 billion, it has posted an annual loss of €3.0 billion as a result of the effect of the COVID-19 pandemic on the holiday industry sector. TUI had previously secured state loans totaling €3.0 billion. TUI has confirmed that it intends to increase its annual cost-cutting measures to €400 million from the previous target of €300 million.

"The rapid measures to cut costs and secure liquidity are important for the Group. They are a stable foundation for the future," TUI Chief Executive Fritz Jousen said in a statement. The company posted a loss of €3 billion, from €894 million of underlying core earnings (EBIT) last year, while revenue came in 58% lower at €7.9 billion. Following the latest bailout, TUI now has €2.5 billion of liquidity, and Jousen said the COVID-19 vaccine would help boost demand for holidays in 2021, forecasting a return to 2019 levels by 2022. Bookings for next summer were 3% higher than they were at this stage in 2019, and average prices for summer 2021 were 14% higher than 2020. TUI's carriers include TUI Airways in the U.K., TUI Fly Belgium, TUI fly Deutschland, TUI fly Netherlands and TUI fly Nordic. (€1.00 = US\$1.21 at time of publication.)

## MILITARY AND DEFENCE

### IBC wins US\$9.7 million in new orders from Lockheed Martin



IBC to produce two aerospace-qualified beryllium-aluminum components for the F-35 Lightning II aircraft Photo: IBC

IBC Advanced Alloys Corporation, a leading beryllium and copper advanced alloys company, has reported that Lockheed Martin has awarded IBC new purchase orders totaling approximately US\$9.7 million to produce two aerospace-qualified beryllium-aluminum components for the F-35 Lightning II aircraft over the next 26 months. One purchase order involves production of the azimuth gimbal housing unit used in the F-35's Electro-Optical Targeting System (EOTS). IBC has manufactured this part for Lockheed Martin since 2015 using the Company's high-performance Beralcast® beryllium-aluminum investment cast alloy. In a new development, Lockheed Martin also awarded IBC an order to produce a second part for the F-35 – the gimbal mounting ring – which is also used in the EOTS. IBC worked in close partnership with Lockheed Martin in developing a process for producing the ring using IBC's innovative investment casting technology. The total value of the new purchase order is approximately US\$9.7 million over 26 months, which represents a 24% increase over previous three-year purchase order from Lockheed Martin.

## MILITARY AND DEFENCE

Systems Command. This expanded contract provides contractor logistics support required for operating and maintaining the C-40A aircraft, aircraft subsystems, appliances and support equipment, including depot-level, main operating base and supply support. This award also introduces additional requirements including new operating sites, commercial line maintenance, and scheduled engine overhauls. Heavy maintenance work on the C-40A aircraft will be performed at AAR's MRO facility at the Oklahoma City airport, with line maintenance support conducted at two Naval Air Stations within the United States and logistics support at six Naval Air Stations. AAR will also use its landing gear repair facility in Miami and component repair shop in New York to support the Navy fleet.

### Boeing's autonomous MQ-25 completes first test flight with Aerial Refueling Store



Photo: Boeing MQ-25 T1 ARS

Boeing and the U.S. Navy have for the first time flown the MQ-25 T1 test asset with an aerial refueling store (ARS), a significant milestone informing development of the unmanned aerial refueler. The successful 2.5-hour flight with the Cobham ARS – the same ARS currently used by F/A-18s for air-to-air refueling – was designed to test the aircraft's aerodynamics with the ARS mounted under the wing. The flight was conducted by Boeing test pilots operating from a ground control station at MidAmerica St. Louis Airport in Mascoutah, Ill. Future flights will continue to test the aerodynamics of the aircraft and the ARS at various points of the flight envelope, eventually progressing to extension and retraction of the hose and drogue used for refueling. Earlier this year the Navy exercised an option for three additional MQ-25 air vehicles, bringing the total aircraft Boeing is initially producing to seven. The Navy intends to procure more than 70 aircraft, which will assume the tanking role currently performed by F/A-18s, allowing for better use of the combat strike fighters.

## INFORMATION TECHNOLOGY

**CargoAi** is increasing its offer to freight forwarders by making real-time prices and electronic bookings available on its platform for major leisure carriers: **TUI**, **Condor** and **SunClass Airlines**. This roll-out has been made possible thanks to the support of ECS Group, the GSSA of these airlines in Total Cargo Management. Pursuing its digitization strategy for air freight, CargoAi thus offers its users access to a variety of air transport solutions anywhere in the world. 'These three airlines offer a multitude of destinations. Our users can now benefit from this by reserving their capacities on our platform in a few seconds', said CargoAi CEO Matthieu Petot. For ECS Group, the approach also aims to provide a premium service to its airline customers and above all, to offer them an additional sales tool for their cargo capacities. This is an important step for CargoAi, which is aiming for a 'smooth, simple' digitization of the industry. 'We offer a turnkey service to our customers by doing all the technical work upstream, without the need for any investment on their part. These are the types of actions that will lead to a digitized industry, equal to its importance in the world economy', said Matthieu Petot.



Photo: Luis Felipe de Oliveira



DRF Luftrettung signed for the AMOS MRO edition

Photo: Swiss-AS

**Swiss-AS** has signed a contract with **DRF Luftrettung**, one of Europe's major air rescue companies based in Germany, regarding the license and implementation of AMOS. Over the last decades, DRF's Part 145 scope of work, number of staff and facilities have constantly expanded. The company growth brought many challenges with it. To face and tackle these, the company performed an extensive process-streamlining project in which context also the maintenance software was reviewed. The legacy software was implemented in the 1980s and with the

company wide review it became evident that a new maintenance software was inevitable. The AMOS MRO edition convinced the DRF with its rich functionality. Considering DRF's very varied fleet, having one common and highly integrated system will surely help the customer to have at any time a clear and complete overview of their fleet maintenance requirements and activities. The project was kicked-off in October. Swiss-AS will staff the project mainly with German speaking employees for a smooth project communication.

## OTHER NEWS

**All Nippon Airways** (ANA) has partnered with **Toyota Industries** to conduct additional tests of the robotic baggage loader and autonomous towing tractor to further develop these innovative technologies to accelerate their adoption. Scheduled for December 14th – 18th, this latest series of tests will demonstrate the gains made by autonomous technology. The tests will take place at Kyushu Saga International Airport (Saga Airport) where ANA has conducted trials of automated technology since March 2019. The airport has served as the location for the trials as ANA has partnered with Saga prefecture to transform Saga Airport into one of the world's smartest, best connected airports. By automating baggage and cargo handling operations, ANA is advancing its initiative to develop "Simple & Smart" airport ground support operations, helping to create a streamlined and comfortable working environment for all while allowing airports to function efficiently with smaller workforces.



Robotic bag loader

Photo: ANA



Photo: Virgin Galactic unveils the new spacesuits

**Virgin Galactic** has unveiled the spacesuits its pilots will wear as they fly private astronauts on journeys to space. Designed in collaboration with the company's technical space wear partner, **Under Armour**, the Virgin Galactic pilot corps will wear the spacesuit and footwear on future flights – including the first human spaceflight from New Mexico, which is due to take place this month with the flight window opening on December 11. Wearing the spacesuit on the December flight will be Chief Pilot, Dave Mackay and Pilot, CJ Sturckow – who is expected to become the first person to fly to space from three different U.S. States. They are both members of the eight-person team in the Virgin Galactic pilot corps. This design is the latest addition to the astronaut apparel created with Under Armour, which also includes the space wear system that Virgin Galactic future astronaut customers will wear for their spaceflights. For the

pilots' suits, the design team followed a brief to create a non-pressurised spacesuit which not only aesthetically conveys the pilots' role in Virgin Galactic's mission, but which also practically supports their unique task of flying regularly at over three times the speed of sound into space and back. Due to these unique requirements, each member of the pilot corps was heavily involved in the design process, providing feedback and wearing test versions of the spacesuit while completing various assignments.

**Lilium**, the Munich-based aviation company developing an all-electric, vertical take-off and landing aircraft (eVTOL) for regional air mobility, announced an industry-first partnership with **Lufthansa Aviation Training** (LAT, member of the **Lufthansa Group**). Together, Lilium and Lufthansa Aviation Training will develop a tailor-made Pilot Sourcing and Training program to qualify pilots to fly the Lilium Jet. The first phase of this innovative program consists of bespoke Lilium type rating training certification for qualified commercial pilots. It will harness technologies including Mixed and Virtual Reality (MR/VR) opening possibilities to recreate the program worldwide and enabling a stable pipeline of qualified pilots to support the growth of the company and the industry. Lilium and Lufthansa Aviation Training will also jointly work together with EASA (EU) and FAA (USA) regulatory authorities on certification.



Photo: Lilium partners with Lufthansa Aviation Training to select and train pilots for Lilium Jet



Delta and KLM are launching COVID-tested flights from Atlanta to Amsterdam

Photo: Delta Air Lines

Trans-Atlantic partners **Delta Air Lines** and **KLM Royal Dutch Airlines** are launching COVID-tested flights from Atlanta to Amsterdam, effective Dec. 15. The airline partners have worked with the Dutch government, Amsterdam Airport Schiphol and Hartsfield-Jackson Atlanta International Airport to deliver a comprehensive COVID-19 testing program that will allow eligible customers to be exempt from quarantine on arrival after receiving a negative PCR test result on landing in the Netherlands. Pieter Elbers, President & CEO KLM Royal Dutch Airlines, said, "This is a very important and great step forward. Until an approved working vaccine is available worldwide, this testing program represents the first step towards the international travel industry's recovery. I am grateful for the constructive collaboration with our partners Delta Air Lines and the Schiphol Group and to have the support of the Dutch government to make this unique COVID- free travel corridor trial possible." The COVID-tested flights will operate four times per week from Atlanta to Amsterdam, with Delta and KLM operating two frequencies each. Only passengers with negative test results will be accepted on board. The flights will initially run for three weeks and, if successful, the airlines hope to extend the program to other markets.

## OTHER NEWS

The **Board of Airline Representatives in Germany** (BARIG), the association of international and German airlines operating in Germany, supports the demands of numerous international associations and companies for an immediate termination of the current blanket quarantine regulations in air traffic. In this respect, BARIG refers to the most recent research results of the **European Center for Disease Prevention and Control** (ECDC) and the **European Aviation Safety Agency** (EASA), among others, both of which are agencies of the **European Union**. In their latest guidelines on COVID-19 testing and quarantine regulations for air passengers, ECDC and EASA consider the countries' quarantine regulations to be ineffective and inappropriate within the current epidemiological situation. Instead, both agencies explicitly confirm that air passengers account for less than 1 percent of COVID-19 cases worldwide, indicating that they do not constitute a contributory factor to increased infection rates. Accordingly, quarantine measures for incoming passengers are only appropriate in rare cases. BARIG Secretary General Michael Hoppe, calls for appropriate, joint action by the governments of the EU countries, the European Economic Area, and the United Kingdom. Instead of generalized, precautionary blanket quarantine regulations in combination with broad and rigorous travel restrictions, BARIG is proposing the establishment of safe travel corridors, for example between Germany and North America, as well as enhanced rapid test procedures at airports. Targeted proposals and encouraging first experiences have already been made for



Photo: AirTeamImages

The **International Air Transport Association** (IATA) has released data for the month of October which reveals that demand for air freight cargo continues, though at a slower rate of recovery than was seen in September. Figures remain appreciably below those for October 2019. Global demand, measured in cargo ton-kilometers (CTKs\*), was 6.2% below previous-year levels in October (-7.5% for international operations). That is an improvement from the 7.8% year-on-year drop recorded in September. However, the pace of recovery in October was slower than in September with month-on-month demand growing 4.1% (1.1% for international.) Global capacity, measured in available cargo ton-kilometers (ACTKs), shrank by 22.6% in October (24.8% for international operations) compared to the previous year. Strong regional variations continue with North American and African carriers reporting year-on-year gains in demand (+6.2% and +2.2% respectively), while all other regions remained in negative territory compared to a year earlier. Global goods trade continued to trend upwards in recent months, according to the World Trade Organization. The uptick will not be sufficient to avoid a full-year decline of 9.2% compared to 2019. Much of this ground, however, will be regained in 2021 with an expectation of 7.2% annual growth. "Demand for air cargo is coming back—a trend we see continuing into the fourth quarter. The biggest problem for air cargo is the lack of capacity as much of the passenger fleet remains grounded. The end of the year is always peak season for air cargo. That will likely be exaggerated with shoppers relying on e-commerce—80% of which is delivered by air. So the capacity crunch from the grounded aircraft will hit particularly hard in the closing months of 2020. And the situation will become even more critical as we search for capacity for the impending vaccine deliveries," said Alexandre de Juniac, IATA's Director General and CEO.

## OTHER NEWS

both of those measures; likewise, the necessary and important test infrastructure is still in place at many airports.

In November, **Finnair** carried 85,000 passengers, which was 92.2% less than in the corresponding period of 2019 and 15.6% less than in October 2020. The COVID-19 impact, including the exceptionally strict travel restrictions imposed by Finland, still affected all passenger traffic figures. It was visible especially in the North Atlantic figures (no scheduled flights in November). The overall capacity (ASK) decreased in November by 88.9% year-on-year. Finnair operated 81 daily flights (cargo-only included) on average which was 23.4% compared to November 2019. The differences between capacity figures are explained by the shorter operated flights on average and by smaller operated aircraft compared to November 2019. Finnair's traffic (RPKs) decreased by 96.3%. The Passenger Load Factor (PLF) decreased by 51.7% points to 25.4%. Available scheduled cargo ton kilometers decreased by 85.9% year-on-year and revenue scheduled cargo ton kilometers decreased by 80.4%, both due to the impact of the COVID-19 pandemic on scheduled flights. However, cargo related available ton kilometers decreased by 56.8% and revenue ton kilometers only by 38.8% as they both include also the cargo-only flights operated between Europe and Asia as well as Europe and North America. Cargo-only tons were up by 124.1% and the total cargo tons by 54.0% from October 2020 due to a very strong demand for the cargo capacity especially in Asia. As a result, the cargo load factor was still clearly higher than in the corresponding period of 2019.

## INDUSTRY PEOPLE



Aurimas Urbonas

• Managing director **Aurimas Urbonas** has been appointed to lead BAA Training Spain – a modern six simulator aviation training center near Barcelona El Prat Josep Tarradellas Airport, set to accommodate various pilot training needs: wet and dry full flight simulators lease services, type rating training, and more. Urbonas will bear responsibility for BAA Training Spain's performance. He will convey and execute the company's vision, establish and

## INDUSTRY PEOPLE

maintain effective links with customers, and develop long-range plans and strategies.

• easyJet has appointed **Sophie Dekkers** as its new Chief Commercial Officer. Dekkers has been with easyJet since 2007 in a variety of roles, most recently as Customer Director. During her time at the airline, she has looked after the commercial performance of the U.K. market as U.K. Country Director as well as having performed roles such as Director of Scheduling and Head of Business. Dekkers will be responsible for network and planning, scheduling, commercial and digital. Her appointment follows the resignation of **Robert Carey** and she will take over with immediate effect. **Thomas Haagensen**, Group Markets Director will take over Carey's responsibilities for the marketing and customer teams as the airline's Group Marketing and Markets Director.



Shawn Richard

• **Shawn Richard**, Vice President Global Air Freight at SEKO Logistics, has been elected to the Board of Directors of the Airforwarders Association (AFA), the voice of the air forwarding industry in the United States. He joins other newly elected BOD members for the upcoming 2021-2024 term of office and will be officially sworn into office at the AFA's virtual Board meeting on January 5, 2021. The new recruits will join eight existing AFA Directors in continuing the success of the Association and guiding its future growth and development.



Michael Coviello

• **Michael Coviello**, who has 42 years of

industry experience, as Vice President of Transaction Management. In his new role, Coviello will manage and optimize all aspects of the deal flow transaction process, from contracts to third parties liaising to technical, in an effort to support the origination team and further drive transaction volume. Throughout Coviello's distinguished career spanning four decades, he has held notable leadership positions, most recently, he served as Vice President Aircraft Trading of ACG in Newport Beach, CA.

• **Max Knagge**, SAS' Head of Sales for the US market, has been appointed as CEO of SAS Cargo following **Leif Rasmussen**, who is leaving his position as CEO of SAS Cargo Group A/S after 38 years of service with SAS. The transition starts immediately, with Knagge formally assuming the role on January 1, 2021.

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# THE AIRCRAFT AND ENGINE MARKETPLACE

## Commercial Jet Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
A319-100	DVB Bank	CFM56-5B63	3586	2008	Q2/2021	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
A319-100	DVB Bank	V2522-A5	2375	2005	Q1/2021	Sale / Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
A319-100	FPG Amentum	V2527M-A5	3705	2008	Q2/2021	Sale / Lease	Eoin Kirby	eoin.kirby@fpg-amentum.aero	+353 86 027 3163
A319-100	BBAM	CFM56-5B5/P	2129	2004	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 415 486 6100
A319-100	BBAM	CFM56-5B5	2249	2004	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
A319-100	BBAM	CFM56-5B5/P	1362	2000	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
A319-100	ALTAVAIR	CFM56-5B6/P	1102	1999	Now	Sale / Lease	Clive Bowen	clive.bowen@altavair.com	+44 2075351602
A320	DVB Bank	V2527	4323	2010	Q2/2021	Sale / Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
A320-200	BBAM	V2527-A5	2587	2005	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
A320-200	ORIX Aviation	CFM56-5B4/P	2584	2005	Q1/2021	Sale / Lease	Oisín Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A320-200	DVB Bank	V2527-A5	3734	2009	Q1/2021	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
A320-214	DVB Bank	CFM56-5B4/3	3767	2009	Q1/2021	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
A320-230	DVB Bank	V2527-A5	4552	2010	Q1/2021	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
A320-251neo	FPG Amentum	LEAP 1A26	8300	2018	Now	Sale / Lease	Niall Hayden	niall.hayden@fpg-amentum.aero	+353 83 154 6475
A330-200	ORIX Aviation	Trent 772B-60	1306	2012	Now	Sale / Lease	Oisín Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A330-200	DVB Bank	CF6-80E	814	2007	Q1/2021	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
A330-200	GA Telesis	CF6-80E1A4	510	2002	Now	Sale	Mauro Francazi	aircraft@gatelesis.com	+1-954-676-3111
A330-200 (16x)	ALTAVAIR	Trent 772B-60/16	various	05-14	Now	Sale / Lease	Clive Bowen	clive.bowen@altavair.com	+44 2075351602
A330-200	Doric	Trent 772B-60/16	1407	2013	Q1/2021	Sale / Lease	Maurick Groeneveld	maurick.groeneveld@doric.com	+49 (0)69 247559931
A330-200	Doric	CF6-80E1A4/B	883	2007	Q1/2021	Sale	Maurick Groeneveld	maurick.groeneveld@doric.com	+49 (0)69 247559931
A330-200	AELF FlightService	CF6-80E1A3	466	2002	Now	Wet / Charter	Stephen Haire	shaire@aelfinc.com	+1 312 772 1613
A330-200	AELF FlightService	CF6-80E1A3	871	2007	Now	Wet / Charter	Stephen Haire	shaire@aelfinc.com	+1 312 772 1613
A330-200	AELF FlightService	PW4168A	970	2008	Now	Lease	Stephen Haire	shaire@aelfinc.com	+1 3127721613
A330-300 (6x)	ALTAVAIR	Trent 772-60/19	various	09-11	Now	Sale / Lease	Clive Bowen	clive.bowen@altavair.com	+44 2075351602
A330-300	BBAM	Trent 772B-60	1562	2014	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
A330-300	BBAM	Trent 772B-60	1609	2015	Mar 2021	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
A330-300	BBAM	PW4168A	403	2003	Sep 2020	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
A330-300	DVB Bank	Trent 772B-6	1146	2010	Q2/2021	Sale / Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
A330-300	FPG Amentum	Trent 772B-60EP	1427	2013	Now	Sale / Lease	Rupert Leggett	rupert.leggett@fpg-amentum.aero	+353 86 041 9902
B737-700	BBAM	CFM56-7B22	38125	2011	Mar 2021	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B737-700	BBAM	CFM56-7B22	38126	2011	Mar 2021	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B737-700	BBAM	CFM56-7B22	38127	2011	Mar 2021	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B737-700	BBAM	CFM56-7B20	32414	2002	Feb 2021	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B737-700	DVB Bank	CFM56-7B	30659	2003	Q1/2021	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
B737-800	FPG Amentum	CFM56-7B27E	40259	2013	Q2/2021	Sale / Lease	Eoin Kirby	eoin.kirby@fpg-amentum.aero	+353 86 027 3163
B737-800	FPG Amentum	CFM56-7B26/3	35647	2009	Q2/2021	Sale / Lease	Eoin Kirby	eoin.kirby@fpg-amentum.aero	+353 86 027 3163
B737-800	FPG Amentum	CFM56-7B26/3	39162	2009	Q3/2021	Sale / Lease	Niall Hayden	niall.hayden@fpg-amentum.aero	+353 83 154 6475
B737-800	FPG Amentum	CFM56-7B26/3	39163	2009	Q4/2021	Sale / Lease	Niall Hayden	niall.hayden@fpg-amentum.aero	+353 83 154 6475
B737-800	GA Telesis	CFM56-7B26	30230	1999	Feb 2021	Sale / Lease	Mauro Francazi	aircraft@gatelesis.com	+1-954-676-3111
B737-800	DVB Bank	CFM56-7B26E	40880	2012	Q1/2021	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
B737-800	DVB Bank	CFM56-7B26	30294		Q4/2020	Sale	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
B737-800	DVB Bank	CFM56-7B26	33798	2003	Q1/2021	Sale / Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
B737-800	DVB Bank	CFM56-7B26	33799	2004	Q1/2021	Sale / Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
B737-800	DVB Bank	CFM56-7B26	34015	2004	Q1/2021	Sale / Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
B737-800	ORIX Aviation	CFM56-7B26E	38034	2012	Q4/2020	Sale / Lease	Oisín Riordan	oisin.riordan@orix.ie	+353 86 335 0004
B737-800	ALTAVAIR	CFM56-7B26	27985	2000	Now	Sale / Lease	Clive Bowen	clive.bowen@altavair.com	+44 2075351602
B737-800	ALTAVAIR	CFM56-7B26	28382	2000	Now	Sale / Lease	Clive Bowen	clive.bowen@altavair.com	+44 2075351602
B737-800	BBAM	CFM56-7B26	28595	1999	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B737-800SF	GA Telesis		28826	1999	Q2/2021	Sale / Lease	Mauro Francazi	aircraft@gatelesis.com	+1-954-676-3111
B737-800SF	GA Telesis		32903	2002	Q4/2020	Sale / Lease	Mauro Francazi	aircraft@gatelesis.com	+1-954-676-3111
B737-900	BBAM	CFM56-7B26/3	34953	2007	Dec 2020	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B777-300ER	Doric	GE90-115BL1	35592	2009	Q2/2021	Sale / Lease	Maurick Groeneveld	maurick.groeneveld@doric.com	+49 (0)69 247559931
B777-300ER	Doric	GE90-115BL2	36158	2009	Q2/2021	Sale / Lease	Maurick Groeneveld	maurick.groeneveld@doric.com	+49 (0)69 247559931
B777-300ER	DVB Bank	GE90-115B	37705	2009	Q1/2021	Sale / Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449



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# THE AIRCRAFT AND ENGINE MARKETPLACE

## Regional Jet / Turboprop Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
ATR72-600	AELIS Group	PW127N	1172	2014	Now	Sale	Mirka Tomasovicova	contact@aelisgroup.com	+42 1911973118
ATR72-600	AELIS Group	PW127N	1196	2014	Now	Sale	Mirka Tomasovicova	contact@aelisgroup.com	+42 1911973118
ATR72-600	AELIS Group	PW127N	1199	2014	Now	Sale	Mirka Tomasovicova	contact@aelisgroup.com	+42 1911973118
ATR72-600	AELIS Group	PW127N	1231	2015	Now	Sale	Mirka Tomasovicova	contact@aelisgroup.com	+42 1911973118
CRJ-200LR	Regional One	CF34-3B1	8062	2006	Now	Sale / Lease	Andre Boudreaux	Aboudreaux@regionalone.com	-1(305) 759-0670 Ext. 164
CRJ-700	Regional One	CF34-8C5B1	10205	2005	Now	Sale / Lease	Andre Boudreaux	Aboudreaux@regionalone.com	-1(305) 759-0670 Ext. 164
(20) DHC-8-400	FPG Amentum	PW150A	multiple 2003-2011	Now	Sale / Lease	Rupert Leggett	rupert.leggett@fpg-amentum.aero		+353 86 041 9902
D0328 Jet	Regional One	PW306B	3185	2001	Now	Sale / Lease	Andre Boudreaux	Aboudreaux@regionalone.com	-1(305) 759-0670 Ext. 164
ERJ170-100LR	Regional One	CF34-8E5	17000123	2006	Now	Sale / Lease	Andre Boudreaux	Aboudreaux@regionalone.com	-1(305) 759-0670 Ext. 164
ERJ-145LR	Regional One	AE3007A1	145304	2001	Now	Sale / Lease	Andre Boudreaux	Aboudreaux@regionalone.com	-1(305) 759-0670 Ext. 164
ERJ-145LR	Regional One	AE3007A1	145331	2000	Now	Sale / Lease	Andre Boudreaux	Aboudreaux@regionalone.com	-1(305) 759-0670 Ext. 164

## Commercial Engines

Multiple Types	Sale / Lease	Company	Contact	Email	Phone
Multiple Engines GE / CFM / RB211	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
<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
<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 - Sale				
CF34-3A	Now - Sale / Lease				
(2) CF34-8C5B1	Now - Sale / Lease	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) CF34-3B1	Now - Sale / Lease				
(1) CF34-3B1 (dual release tag)	Now - Sale	FL Technics	Modestas Valiusėvicius	m.valiusėvicius@fltechnics.com	+370 6 54 96179
(3) CF34-10E	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) CF34-8E5A1	Now - Lease	Magellan Aviation Group	Bill Poly	bill.poly@magellangroup.net	+1 (704) 504 9204x202
(1) CF34-8C5A1	Now - Lease				
(2) CF34-10E6	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
CF34-8E(s)	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1 (513) 782-4272
<b>CF6 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) CF6-80C2B7F	Now - Sale / Lease	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(1) CF6-80E1A3	Now - Sale / Lease				
(1) CF6-80E1A4B	Now - Sale / Lease				
(2) CF6-80E1A4B	Now - Sale/Lease/Exch.	ALTAVAIR	Clive Bowen	clive.bowen@altavair.com	+44 2075351602
(2) CF6-80E1	Now - Lease	DVB Bank	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
(1) CF6-80E1A4B	Now - Sale / Lease	Castllake	Stuart MacGregor	Stuart.macgregor@castllake.com	+44 207 190 6138
<b>CFM Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(2) CFM56-5B (all thrust levels)	Now - Sale / Lease	Contrail Aviation	Kevin Milligan	kevin@contrail.com	+1 949-933-0797
(2) CFM56-7B (all thrust levels)					
(3) CFM56-5C4	Now - Lease	AELF FlightService	Stephen Haire	shaire@aelfinc.com	+1 312 772 1613
(1) CFM56-5B4/P (full QEC)	Now - Lease	FTAI Aviation LLC	Tom McFarland	tmcfarland@ftaaviation.com	+1 786 785 0787
(1) CFM56-5B5/P	Now - Lease				
(1) CFM56-5B8/P	Now - Lease				
(2) CFM56-7B26 (full QEC)	Now - Lease				
(1) CFM56-7B24	Now - Lease				
(1) CFM56-7B22 (with QEC)	Now - Lease				
(2) CFM56-7B24/3	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(2) CFM56-5B4/3	Now - Lease				
(1) CFM56-5C4/P	Now - Lease				
(1) CFM56-7B224/E	Now - Lease				
(1) CFM56-5C	Now - Lease				
(1) CFM56-7B27/B3	Now - Lease				

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# THE AIRCRAFT AND ENGINE MARKETPLACE

## Commercial Engines (cont.)

(2) CFM56-5A	Now - Sale	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
(1) CFM56-5B3/3 PIP	Now - Lease	Rolls-Royce & Partners Finance	RRPF Marketing	RRPFMarketing@rolls-royce.com	+44 7528975877
(4) CFM56-7B26	Now - Sale / Lease	ALTAVAIR	Clive Bowen	clive.bowen@altavair.com	+44 2075351602
(2) CFM56-5B6/P	Now - Sale / Lease				
(2) CFM56-7B26	Now - Sale / Lease	BBAM	Steve Zissis	info@bbam.com	+1 787 665 7039
(3) CFM56-5B5/P	Now - Sale / Lease				
(2) CFM56-7B22	Now - Lease	DVB Bank	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
(multiple) CFM56-5B	Now - Sale / Lease	CFM Materials	Jimmy Hill	jimmy.hill@cfmmaterials.com	+1 469-628-3756
(multiple) CFM56-7B	Now - Sale / Lease				
(2) CFM56-7B26/E	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CFM56-7B26/3	Now - Lease				
(1) CFM56-7B24/E	Now - Lease				
(1) CFM56-5B3/3	Now - Lease				
(1) CFM56-5B4/3	Now - Lease				
(2) CFM56-5B4/P	Now - Sale / Lease	Castlelake	Stuart MacGregor	Stuart.macgregor@castlelake.com	+44 207 190 6138
(1) CFM56-7B22	Now - Sale / Lease	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(1) CFM56-7B26	Now - Sale / Lease				
(1) CFM56-5B4/P	Now - Sale / Lease				
(2) CFM56-7B26/27	Now - Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(2) CFM56-5B6/P	Now - Lease				
(1) CFM56-5B4/P	Now - Lease				
<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	AZURE RESOURCES INC.	Jeff Young	jeff@azureres.com	1-954-249-7935
<b>GE90 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) GE90-115B	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) GE90-94B	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(2) GE90-115BL1	Now - Sale/Lease/Exch.	ALTAVAIR	Clive Bowen	clive.bowen@altavair.com	+44 2075351602
(1) GE90-115BL (Propulsor)	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
<b>LEAP Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) LEAP-1B28	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(2) LEAP-1A33	Now - Lease				
(1) LEAP-1A32	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) LEAP-1A26	Now - Lease				
<b>PW 4000 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(2) PW4168A	Now - Lease	Presidio Aircraft Leasing	Stephen Haire	shaire@aelfinc.com	+1 312 772 1613
<b>PW Small Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(3) PW121	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) PW123B/E	Now - Sale / Lease				
(3) PW127E/F/M	Now - Sale / Lease				
(1) PW150A	Now - Sale / Lease				
(1) PW123	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	leasing@willislease.com	+1 (561) 349-8950
(3) PW150A	Now - Sale/Lease/Exch.				
(3) PW127M	Now - Sale/Lease/Exch.				
PW119B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
PW119B	Now - Lease				
PW120A	Now - Lease				
PW121 (ATR)	Now - Lease				
PW124B	Now - Lease				
PW123B	Now - Lease				
PW125B	Now - Lease				
PW127F	Now - Lease				
PW150A	Now - Lease				
PW127M	Now - Lease				
PW150A RGB	Now - Lease				
(1) PW120A	Now - Sale / Lease	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) PW120	Now - Sale/Lease/Exch.				
(1) PW123E	Now - Sale/Lease/Exch.				
(4) PW126	Now - Sale/Lease/Exch.				
(1) PW121	Now - Sale/Lease/Exch.				

**Interested in remarketing of your aircraft or engines?**  
**Contact Tamar Jorssen @ tamar.jorssen@avitrader.com +1 (778) 213-8543**

# THE AIRCRAFT AND ENGINE MARKETPLACE

## Commercial Engines (cont.)

PW Small Engines	Sale / Lease	Company	Contact	Email	Phone
(2) PW123	Now - Sale	Castlelake	Stuart MacGregor	Stuart.macgregor@castlelake.com	+44 207 190 6138
(1) PW120A	Now - Sale				
(1) PW120 / PW121	Now - Sale / Lease	Royal Aero	Calum MacLeod	calum@royalaero.com	+49 8025 993610
RB211 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) RB211-535E4	Now - Sale / Lease	Castlelake	Stuart MacGregor	Stuart.macgregor@castlelake.com	+44 207 190 6138
Trent Engines	Sale / Lease	Company	Contact	Email	Phone
(2) Trent 772B-60	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	RRPF Marketing	RRPFMarketing@rolls-royce.com	+44 7528975877
(1) Trent-556	Now - Sale/Lease/Exch.				
(1) Trent XWB-84k	Now - Lease				
(1) Trent772B-60	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) Trent 892B-17	Now - Sale	Centaurus Services/MASB	Paul Bithavas	paul.bithavas@centaurus.services	+61 408 389 241
(1) Trent 892B-17	Now - Sale / Exchange				
V2500 Engines	Sale / Lease	Company	Contact	Email	Phone
(2) V2527-A5	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	RRPF Marketing	RRPFMarketing@rolls-royce.com	+44 7528975877
(2) V2533-A5	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) V2530-A5	Now - Lease				
(2) V2527-A5	Now - Lease				
(1) V2527E-A5 (full QEC)	Now - Lease	FTAI Aviation LLC	Tom McFarland	tmcfarland@ftaiairline.com	+1 786 785 0787
(1) V2527-A5	Now - Lease				
(2) V2522-A5	Now - Lease	DVB Bank	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
(2) V2527-A5	Now - Lease				
(2) V2527-A5	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204
(3) V2533-A5	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) V2527-A5	Now - Sale / Lease	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111

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

Description		Company	Contact	Email	Phone
(1) GTC331-500B	Now - Sale / Exchange	Centaurus Services/MASB	Paul Bithavas	paul.bithavas@centaurus.services	+61 408 389 241
Trent 892B-17 Modules					
(2) GTC331-200ER, (2) GTC331-9A, (1) GTC331-9B	Now - Sale	Setna IO	David Chaimovitz	david@setnaio.com	+1-312-549-4459
(1) A321 Enhanced Landing Gear 2020 OH					
Neutral CFM56-7B QEC Kit	Now - Sale	CFM Materials	Michael Arellano	Michael.Arellano@cfmmaterials.com	+1-214-988-6676
Landing gear shipsets	Now - Sale	GA Telesis	Danielle Rodon	landinggearsales@gatelesis.com	+1 954 865 9314
737-800, 777, A320, A330					
767-300ER 413K, 737-300 LANDING GEAR	Now - Sale/Lease/Exch.	AZURE RESOURCES INC.	Jeff Young	jeff@azureres.com	1-954-249-7935
GTC331-98DHF APU	Now - Sale/Lease/Exch.				
A320 Nose Landing Gear	Now - Sale/Lease/Exch.				
CFM56-3 LPT MODULE, REPAIRED	Now - Sale/Lease/Exch.				
CFM56-3 ENGINE STAND	Now - Lease				
(1) GTC331-150RJ, (2) GTC331-100M, (1) RE220RJ, (1) PW126 RGB, (1) PW901A	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) APS1000-C12, (1) APS1000-C3					
GTC331-9A (2), GTC331-9B(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				
(1) PW901A APU	Now - Sale	Royal Aero	Gary MacLeod	gary@royalaero.com	+44 (0)141 389 3014
Neutral V2500-A5 QEC Kits (2) 745K9001-64	Now - Sale	ASI Aero	Dean Morgan	deanm@asiaero.net	+1 561-771-4253
(1) APU T-62T-40C	Now - Sale	Castelake	Stuart MacGregor	Stuart.macgregor@castelake.com	+44 207 190 6138
(2) GTC331-9A, (2) GTC331-9B, (3) GTC331-350		GA Telesis	John Wales	apu@gatelesis.com	+1-417-622-7215
(1) GTC331-200ER, (1) APS3200, (2) GTC331-500					
Engine stands: CF6-80C2, CFM56-3, CFM56-5, CFM56-7, PW4000			Stephen Toutt	stands@gatelesis.com	+1-954-676-3111
(1) APU GTC131-9A, (1) APU GTC131-9B	Now - Sale / Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
Engine stands now available	Now - Lease				
(2) PW901A, (1) PW901C(1), PW125B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368

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