

# Weekly Aviation Headline News

## WORLD NEWS

### Emirates turns A380s into 'mini freighters'

Emirates SkyCargo has started utilising its Airbus A380 aircraft on select cargo charter operations to transport urgently required cargo across its network. The first dedicated Emirates A380 'mini-freighter' successfully transported medical supplies between Seoul and Amsterdam via Dubai. The airline has introduced dedicated cargo operations on the A380 aircraft in response to the surge in the demand for air cargo capacity and evidently the global drop in international air traffic.

### FLYdocs extends partnership with Brussels Airlines

Brussels Airlines, the flag carrier and largest airline of Belgium recently signed a contract with FLYdocs, extending their partnership for end-of-lease (EOL) return services for an Airbus A330 aircraft. For the two subsidiaries of the Lufthansa Group, this latest project includes a build and audit as well as a digital migration of the A330's records before delivery back to its lessor. FLYdocs said the extended partnership with Brussels Airlines was a real testament of commitment to the clients.

### Qatar Airways to extend services in December

Qatar Airways will also launch two new destinations in December with one weekly flight to Luanda, Angola starting from 14 December and four weekly flights to San Francisco from 15 December 2020. Qatar Airways Group Chief Executive, His Excellency Mr. Akbar Al Baker, said: "We are delighted to continue rebuilding our network, resuming routes and adding new destinations. We have made it our priority to not only restart most of our existing destinations as soon as possible but also to launch new routes.



The project will provide technical support to the African air operators.

Photo:  
Keith Mwanalushi

## Safety and connectivity in Africa

### IATA supports new initiative for African airlines

IATA and the African Airlines Association (AFRAA) have joined forces with the African Civil Aviation Commission (AFCAC) on a three-year safety project. The objective is to provide technical support to the African air operators of states party to the Single Africa Air Transport Market (SAATM) to ensure that they achieve and maintain global aviation safety standards.

The recently launched initiative is backed by African Development Bank grant funding provided to AFCAC and is specifically for

carriers in countries that have signed up to the African Union's (AU) flagship Single African Air Transport Market (SAATM) programme

Assessment (ISSA) evaluation.

In addition, participating airlines' personnel will receive quality and safety management systems training. IATA, AFRAA, and AFCAC will also host workshops and training sessions held at their facilities in Nairobi, Johannesburg and Dakar.

**"The ultimate goal of the project is to improve safety levels for the airline sector in Africa."**

*Abdérhmane Berthé, Secretary General, AFRAA*

The project will identify eligible airlines, conduct gap analyses and recommend corrective actions for each participating carrier to prepare them for IATA Operational Safety Audits (IOSA) or IATA Standard Safety

"Depending on the size of their organisation and aircraft they operate, airlines wanting to take advantage of the SAATM's market and commercial expansion benefits are required to be

*Continued on page 3*

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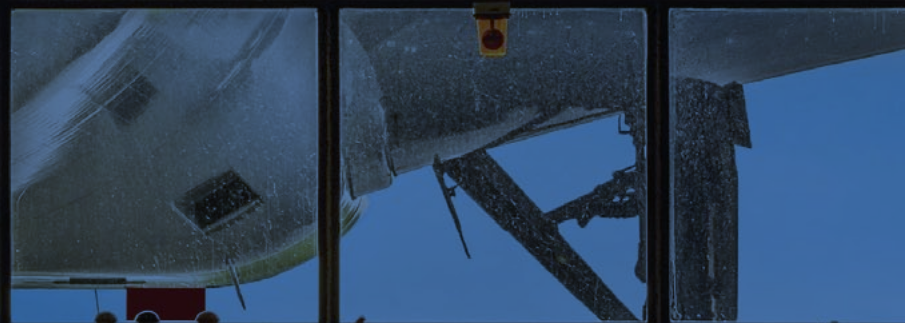
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certified either through IATA's Operational Safety Audit (IOSA) or Standard Safety Assessment (ISSA) programmes. Both safety programmes are globally recognised, and part of the African Safety Targets of Abuja Ministerial Declaration hallmarks of aviation safety. We are committed to opening up Africa's skies through SAATM and supporting the region's airlines in doing so," explained Tefera Mekonnen Tefera, Secretary-General of AFCAC.

"This project will not only bolster safety standards in line with the Abuja Declaration on Safety in Africa. It will also help operationalise the SAATM and reinforce the development of

sustainable commercial air transport in Africa, which is crucial to the recovery and future growth of economies throughout the continent that have been devastated by the COVID-19 crisis," said IATA's Regional Vice President for Africa and the Middle East, Muhammad Ali Albakri.

"The ultimate goal of the project is to improve safety levels for the airline sector in Africa. Indeed, the 2012 Abuja Declaration safety targets stipulate that all African-based airlines attain IOSA or ISAA certification by the end of 2022," said Abdérahmane Berthé, Secretary General, AFRAA.

## AIRCRAFT & ENGINE NEWS



IndiGo

Photo: AirTeamImages

### BOC Aviation delivers first of four Airbus A321neo aircraft to IndiGo

BOC Aviation has delivered the first of four new Airbus A321neo aircraft for lease to IndiGo. The aircraft will be powered by CFM Leap engines. Robert Martin, Managing Director and Chief Executive Officer, BOC Aviation, said: "We are very pleased to deliver the first of four new Airbus A321neo aircraft on lease to IndiGo, India's largest passenger airline, and we're pleased to have an opportunity to build on our relationship with IndiGo."

## Orders and deliveries – Boeing and Airbus

### Airbus v Boeing: Orders and Deliveries

October 2020 YTD

Airbus			Boeing		
Type	Orders	Deliveries	Type	Orders	Deliveries
A220	42	30	737	-425	13
A320 Family	267	325	747	-1	3
A330	-5	13	767	9	23
A350	4	44	777	2	19
A380	0	1	787	22	53
<b>Total</b>	<b>308</b>	<b>413</b>	<b>Total</b>	<b>-393</b>	<b>111</b>

Source: Airbus

Source: Boeing

The company registered 11 new orders for the month, including six newly launched ACJ TwoTwenty, four A320neo Family and one ACJ320neo. Airbus delivered a total of 72 aircraft in October.

Boeing delivered 13 aircraft in October but no orders are recorded for the month.

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## AIRCRAFT & ENGINE NEWS

### Airbus Helicopters delivers 1,400th H135 helicopter



The light twin-engine helicopter H135 reached a major milestone with the delivery of the 1,400th helicopter  
Photo: Airbus Helicopters

At the end of September, Airbus Helicopters delivered its 1,400th H135 helicopter, this one to the French operator Mont Blanc, adding to its fleet of more than 20 H135 and H145 helicopters in service with the operator to provide Helicopter Emergency Medical Services (HEMS) in France. "As the benchmark for HEMS helicopters, the H135 is the safest, most reliable and most economic platform – arriving at the scene on time...every time," explained Martin Schneider, Airbus Helicopters' Head of the H135 program. "There are more than 650 H135s in emergency medical service duties, operated by thousands of pilots and medics who protect and save lives each day." Transferring patients from one care centre to another is a complex operation even in the best of times. In light of the COVID-19 pandemic, the ability to transfer critical care patients has become a crucial in helping to swing the balance in what often are life and death situations, freeing up resources for health care systems under stress.

### Rolls-Royce to test 100% SAF in Trent engine

Rolls-Royce has announced that it is to run a series of ground tests with the Trent gas turbine engine using 100% sustainable aviation fuel (SAF) at its Derby, UK premises. The fuel is being produced by World Energy, a low-carbon fuel specialist based in Paramount, California, sourced by Shell Aviation and delivered by SkyNRG. This unblended fuel has the potential to reduce carbon lifecycle emissions by over 75% when compared to traditional jet fuel, and by an even greater amount in the years to come. According to Rolls-Royce, the aim of the test is to show that their current engines can operate with 100% SAF as a full "drop-in" option, laying the groundwork for moving such fuels towards certification. At present, SAF is certified for blends of up to 50% with conventional jet fuel and can be used on all current Rolls-Royce engines. The jet engine that will be used in the ground tests will also incorporate ALECSys (Advanced Low Emissions Combustion System) lean-burn technology. ALECSys is part of the UltraFan® next generation engine demonstrator program, which offers a 25% fuel saving over the first generation of Trent engines. Paul Stein, Rolls-Royce Chief Technology Officer, said: "Aviation is a tremendous force for good, keeping the world connected, but we have to do that sustainably. These tests aim to show that we can deliver real emissions reductions. If SAF production can be scaled up – and aviation needs 500 million tons a year by 2050 – we can make a huge contribution for our planet." Gene Gebolys, Chief Executive Officer and founder, World Energy, said: "World Energy exists to empower leaders to innovate by providing the world's most advanced low carbon fuels. Rolls-Royce is putting their technological prowess to work to understand how to maximize their potential in engines and we are proud to support them."



The Rolls-Royce Trent engine, housing ALECSys technology, that will be used for the Sustainable Aviation Fuel tests  
Photo: Rolls-Royce

## Lilium to launch first US Vertiport at Lake Nona, Orlando

Munich-based Lilium, which specializes in all-electric vertical take-off and landing (eVTOL) aircraft, has announced it is to partner with the Tavistock Development Company (Tavistock) and the city of Orlando, Florida, to create a Vertiport, the first hub location for a high-speed electric air mobility network in the USA. The location has been chosen because of its centrality in Florida giving access to 20 million Floridians who live within a 186-mile radius of the Vertiport, approximately one hour of flight time for the eVTOL aircraft on a single charge.



Lake Nona, Orlando, Florida will become Lilium's first US Vertiport

Photo: Lilium

Commenting on the ground-breaking partnership, Dr. Remo Gerber, Chief Operating Officer, Lilium said: "We are thrilled to partner with Tavistock and build the first stretch of Florida's high-speed electric transportation network with Central Florida at its core. It shows that regional high-speed air mobility can be built by private initiative and give communities such as Lake Nona, which can also serve Orlando and arrivals from its international airport, the ability to determine themselves whether they want a link into a high-speed transportation network." Described as the "Future of Cities" by Fortune Magazine, Lake Nona provides an unmatched location contiguous to the Orlando International Airport, the origination site of more than half of the region's 75 million annual visitors, with a strong economy and infrastructure ready to support the US launch of electric air mobility. Orlando's aerotropolis is highlighted by the international airport and robust aviation companies and services, including several within Lake Nona, which is home to BBA Aviation/Signature Flight Support and SimCom Aviation Training who recently announced the creation of its new global headquarters that will train approximately 10,000 pilots each year.

## MRO & PRODUCTION NEWS

### Zhejiang Loong Air and CFM sign Rate-Per-Flight-Hour agreement



Zhejiang Loong Air and CFM broaden relationship

Photo: Safran

Zhejiang Loong Air has signed a 12-year Rate-Per-Flight-Hour agreement with CFM International (CFM) for the LEAP-1A engines, powering the airline's leased fleet of 19 Airbus A320 and A321neo aircraft. Additionally, the deal includes an order for four spare LEAP-1A engines. This adds to the long-term service agreement signed last year at the Paris Air Show to cover 36 A320neo aircraft powered by LEAP-1A engines. Loong Air has already taken delivery of 21 LEAP-1A-powered A320neos. RPFH agreements are part of CFM's portfolio of flexible aftermarket support offerings. Under the terms of the agreement, CFM Services guarantees maintenance costs for the airlines LEAP-1A engines on a dollar-per-engine-flight-hour basis. LEAP-1A engines are a product of CFM International, a 50/50 joint company between GE and Safran Aircraft Engines.



## MRO & PRODUCTION NEWS

### West Star Aviation installs first Bongiovi audio system in Hawker 900XP

West Star Aviation has installed its first Bongiovi Audio System in a Hawker 900XP at its Grand Junction (GJT) facility. Bongiovi Aviation Audio system is unique in that the interior panels actually become the speakers, by placing the transducers to the backside of the panels, giving the cabin a sleek, more sophisticated look and sound, while also reducing weight by eliminating speakers and subwoofers. "The dynamic range and frequency spectrum coverage is phenomenal throughout the aircraft," said Walt Marcy, Avionics Technical Sales Manager (GJT).

### TAG Aero and ITS to support 737 New Gen and A320 market with 131-9B and 9A APU solutions

TAG Aero and ITS have entered into an agreement to support the Boeing 737 New Gen and Airbus A320 aircraft market with 131-9B and 9A APU solutions. ITS's strategic fleet retirement solutions combined with TAG Aero's extensive APU repair and overhaul capabilities will establish reliable, global support for 737 New Gen and A320 operators. Together, TAG Aero and ITS will provide solutions for 131-9 series maintenance, leases, flat-rate exchanges and outright APU sales. ITS, located in Arizona, offers a wide range of custom solutions from fleets to airlines, leasing companies, MROs, OEMs and resellers worldwide. This global support has established them as a trusted supply chain partner in the Air Transport Industry. TAG Aero is a 145-certified repair station specializing in Auxiliary Power Units and related material. Between two state-of-the-art facilities in Florida and South Carolina TAG provides customers comprehensive APU solutions including repairs, sales, procurement, leasing, exchanges, and LRU repairs.

### VAS Aero Services to disassemble Airbus A330 aircraft for Hi Fly Airlines

VAS Aero Services and Hi Fly Airlines have announced an agreement for VAS to manage the disassembly of one Hi Fly A330 aircraft (MSN 262) and associated engines. The airframe teardown will be conducted by VAS' European services partner, Tarmac Aerosave, at the Tarmac facility in Tarbes, France. The aircraft's two Pratt and Whitney PW4000-100 engines will be disassembled by SR Technics (SRT) at the SRT facility in Zurich, Switzerland, and will support the two company's Exclusive Supply Program agreement.

### MAC Aero Interiors finishes Embraer Legacy 600 interior refurbishing program

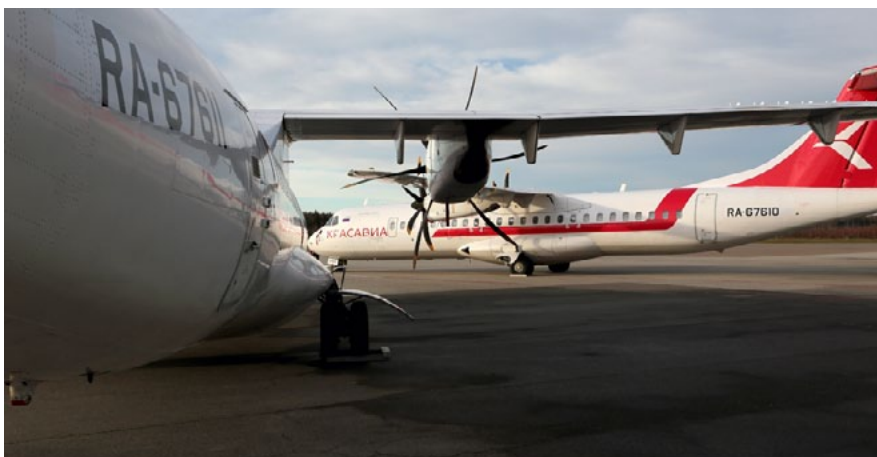


Interior of finished Embraer Legacy 600 jet

Photo: MAC Aero Interiors

MAC Aero Interiors, a subsidiary of global provider of Total Technical Care for aircraft operators and lessors, Magnetic MRO, has successfully completed a full VIP aircraft interior refurbishment project for a private charter flight management company. The Embraer Legacy 600 aircraft has been delivered to Magnetic MRO hangars in Tallinn, Estonia, in September. The project scope followed "from concept to completion path" and included the refurbishment of the seats, divan covers and cushions, including armrests, shroud and fairing covers, in a design tailored specifically for the customer. In addition, it included lavatory refurbishments and carpet changes in the aircraft. New specially made perforated leather and fabric materials have been introduced and certified for this program to create a top-notch interior. Prior to the interior refurbishment, the painting design concept was prepared, and the aircraft has been fully repainted in VIP finish at the company's painting hangar.

### TAM delivers two ATR 72s to Siberian regional carrier KrasAvia



TAM finished a major overhaul and refurbishment on two ATR 72 aircraft for KrasAvia

Photo: AFK

Täby Air Maintenance, TAM, has finished a major overhaul and refurbishment of two ATR 72 aircraft for Russia's regional carrier, KrasAvia, based in Krasnoyarsk, Siberia, some 700 km north-east of Novosibirsk. The two ATRs will be the first on the Russian register, complementing some 40 Russian- and Czech-built regional airliners like the Yak-42, An-24/26 and the Let 410. With more than three decades of qualified airliner maintenance experience, TAM has come to be a well-known provider of high-quality technical services for the worldwide fleet of Saab 340 and Saab 2000. This spring, TAM expanded its service portfolio to include the ATR 72-family, thus building a firm platform for continuous future expansion. With the first two ATRs coming into the workshops this spring, this current delivery of the two aircraft to KrasAvia is the first to a Russian airline.

## FINANCIAL NEWS

### Chorus Aviation reports third-quarter 2020 financial results

Chorus Aviation has reported net income of CA\$20.5 million for the third quarter of 2020, a decrease of CA\$3.7 million due to the impact of COVID-19 on its results, offset by a change in unrealized foreign exchange of CA\$24.9 million. Adjusted net income decreased CA\$18.2 million to of CA\$10.9 million and Adjusted EBITDA was CA\$85.9 million, a decrease of CA\$6.8 million over third quarter 2019 primarily due to the impact of COVID-19 on financial results. At the end of the third quarter the company had liquidity of approximately CA\$218.0 million, an increase of approximately CA\$30.0 million over the second quarter 2020. Chorus Aviation collected approximately 50.0% of lease revenue billed in the third quarter, excluding repossessed aircraft, a 22-percentage-point improvement over the second quarter of 2020.

The company delivered the third of five new Airbus A220-300 aircraft to air Baltic of Latvia. (US\$1.00 = CA\$1.31 at time of publication.)

### Embraer posts third quarter 2020 net loss of US\$148.3 million

Embraer has delivered seven commercial jets and 21 executive jets (19 light / two large) in the third quarter of 2020 (3Q20), and the company's firm order backlog at the end of the quarter was US\$15.1 billion. Excluding special items, adjusted EBIT and EBITDA were US\$(45.3) million and US\$(0.6) million, respectively, negatively impacted by weak commercial aviation results, yielding adjusted EBIT margin of -6.0% and adjusted EBITDA margin of -0.1%; The 3Q20 results include total net positive special items of US\$7.6 million: 1) restructuring expenses of

### EME Aero completes first series of Pratt & Whitney GTF shop visits



Inside the EME Aero shop

Photo: MTU

EME Aero, the engine services joint venture between Lufthansa Technik and MTU Aero Engines, has recently completed the first regular maintenance visits of Pratt & Whitney PW1100G-JM Geared Turbo Fan (GTF™) engines. Since January, when the first engine arrived in line with Pratt & Whitney's low-pressure turbine (LPT) retrofit program, a total of 21 engines were successfully delivered back to different customers. Moreover, EME Aero has now become an official member in the Pratt & Whitney GTF MRO network. After completing the LPT retrofit program, whose 15 engines were used to smoothly start-up operations in the facility, EME Aero has now already completed another six regular customer engine shop visits. "Despite all the obstacles and additional challenges due to the COVID-19 situation, we are still right on track with our ramp-up," said Derrick Siebert, Chief Executive Officer and Managing Director of Business at EME Aero. "The entire team is proud of reaching another important milestone by completing the first series of shop visits of GTF engines. This proves that EME Aero has now achieved full operational readiness." EME Aero is one of the most advanced and largest shops for the latest generation of commercial aircraft engines. With only 18 months from construction to entry into service, it was questionable if the challenging ramp-up program could be met. Yet, in December 2019 the state-of-the-art engine shop, including a fully operational test cell, was ready to start operations as an MRO facility.

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## FINANCIAL NEWS

US\$54.0 million related to the voluntary and non-voluntary dismissal programs announced in September, 2) negative provisions for expected credit losses during the Covid-19 pandemic of US\$13.0 million, 3) reversal of previous impairment in the executive jets business which positively impacted results by US\$15.9 million, and 4) reversal of previous impairment in the Commercial Aviation business which positively impacted results by US\$58.7 million; Adjusted net loss (excluding special items and deferred income tax and social contribution) in 3Q20 was US\$(148.3) million, with adjusted loss per ADS of US\$(0.81); Embraer reported Free cash flow of US\$(566.5) million in 3Q20, still affected by working capital increases (particularly higher inventories) largely in commercial aviation.

### Fly Leasing reports third quarter 2020 net loss of US\$8.1 million

Fly Leasing (FLY) is reporting a net loss of US\$8.1 million for the third quarter of 2020. This compares to net income of US\$51.7 million for the same period in 2019. The decrease in net income is primarily due to the non-recognition of revenue for certain lessees and no aircraft sales in the current quarter. Net income for the nine months ended September 30, 2020 was US\$39.6 million, compared to net income of US\$150.7 million for the nine months ended September 30, 2019. Adjusted net loss was US\$9.0 million for the third quarter of 2020, compared to adjusted net income of US\$59.8 million for the same period in the previous year. For the nine months ended September 30, 2020, adjusted net income was US\$45.9 million compared to US\$168.9 million for the same period last year. On September 30, 2020, FLY's total assets were US\$3.5 billion, including investment in flight equipment totaling US\$3.0 billion. Total cash at the end of September was US\$307.5 million, of which US\$285.1 million was unrestricted. The book value per share was US\$29.28. FLY's net debt to equity ratio was 2.1x, compared to 2.3x on December 31, 2019. On October 15, 2020, FLY closed a new US\$180 million Term Loan to be secured by 11 narrow-body aircraft. The proceeds will be used for general corporate purposes, including the repayment of debt. FLY had 86 aircraft and seven engines in its portfolio at the end of September. The company's aircraft and engines are on lease to 39 airlines in 24 countries.

### Major blow to Norwegian as government withdraws support

Norway's Industry Ministry and the Ministry of Transportation said in a statement on Monday

### Lufthansa and ver.di agree on crisis package of more than €200 million



Photo: Lufthansa

On November 10, Lufthansa and the ver.di union agreed on an initial crisis package after intensive negotiations. The measures, with a volume of more than €200 million (US\$236 million), will help to overcome the economic effects of the crisis. They mainly apply to the ground staff of Deutsche Lufthansa AG, Lufthansa Technik AG and Lufthansa Cargo AG. This means that in addition to short-time work, the 24,000 ground staff are now also making an important contribution to overcome the serious consequences of the coronavirus pandemic. The savings will take immediate effect through the cancellation of the Christmas bonus for 2020. It has also been agreed that the Christmas and vacation bonuses for 2021, including supplements, will be waived. In addition to this, short-time work will be continued consistently and the top-up of short-time working compensation will be reduced from 90 to 87% for 2021. In total, this will enable personnel cost savings of up to 50% in 2021, depending on the total hours worked. In return, Lufthansa will be offering employment protection for the year 2021 as well as partial retirement and voluntary redundancy programs. Talks on long-term reductions in labor costs for the time after January 1, 2022, when the short-time working compensation no longer applies, will be continued. Negotiations on the reconciliation of interests will resume soon with the Central Works Council of Deutsche Lufthansa AG. The agreements that have been reached still require the approval of ver.di members.

that there would be no further funds made available to Norwegian Air (Norwegian) as the stricken airline struggles to cope with crippling debt and financial problems exacerbated by the COVID-19 pandemic. The low-cost carrier has been a pioneer of cheap transatlantic flights, but a rapid expansion policy left it struggling with a debt of approximately US\$8 billion by June this year. Creditors and lessors took over control of the airline in May with a financial rescue package that enabled the carrier to access state-guaranteed loans of 3 billion Norwegian crowns (US\$441 million) as the company sought to operate a pared-back service. "That the government has decided to reject the request for funds is disappointing and feels like a punch in the gut for everyone at Norwegian," Norwegian Chief Executive Jacob Schram said. "Norwegian Air has asked for billions of crowns in additional

support and the government has concluded that this would not be a responsible use of public funds," said Industry Minister Iselin Nyboe. "Norwegian is evaluating the effects of the current situation with the aim of safeguarding the interest of all stakeholders," the company said, according to Reuters news agency. The company has indicated that further funding could come from the sale of aircraft, conversion of more debt to equity or from its owners and the Norwegian government, while declining to specify the amount it might seek.

### Singapore Airlines posts record US\$1.74 billion quarterly loss

With no domestic market to rely on, Singapore Airlines has seen passenger numbers plummet

## FINANCIAL NEWS

by 98.6% for the month of September when compared to the same month in 2019. Additionally, the volume of cargo carried in September 2020 compared to September 2019 fell by 42.3%. The result of the global pandemic has seen the airline cut 4,300 jobs and ground much of its fleet, with little sign of change other than a slight increase in cargo demand. According to the International Air Transportation Association (IATA) it is unlikely carriers will return to pre-pandemic levels until 2024, while Raymond Yap, an analyst at CIMB, believes the airline will continue to lose money for the next three years. Singapore Airlines is also being hit hard by a SG\$1.3 billion impairment charge which is connected to the withdrawal of 26 older aircraft, including seven Airbus A380 superjumbos. Revenue for the quarter fell 81% to SG\$783.8 million compared to the same quarter 2019, generating a SG\$2.34 billion loss compared to a quarterly profit in 2019 of SG\$94.5 million. To help counteract the effects of the pandemic on air travel, Singapore Airlines confirmed back in March that it would raise SG\$5.3 billion in equity and up to SG\$9.7 billion in convertible bonds in a deal backed by its majority shareholder, state fund Temasek Holdings. The airline indicated in mid-October that SG\$6.2 billion of the funds had been used to date to repay a bridging loan, refund tickets, service debt, pay for aircraft and fund operating expenses. It is believed there currently remains SG\$1.9 billion of credit lines and up to SG\$6.2 billion of convertible bonds available. (US\$1.00 = SG\$1.35 at time of publication.)

## MILITARY AND DEFENCE

### StandardAero and Royal Netherlands Air Force sign long-term F135 engine lease and service agreements

StandardAero together with the Royal Netherlands Air Force (RNLAf) have announced the next milestone in a long-term Maintenance, Repair, Overhaul and Upgrade (MRO&U) partnership in The Netherlands, with the signing of F135 engine lease and services agreements. The lease agreement with the Netherlands Central Government Real Estate Agency (RVB) provides all necessary facilities for F135 module MRO&U, including a dedicated engine test stand. The services agreement with the RNLAf provides all necessary equipment for F135 module MRO including highly skilled technician personnel from the RNLAf as well as other key functions such as engineering to perform MRO operations under the operational management of StandardAero.

### Meggitt PLC secures pioneering radome contract with BAE Systems

Meggitt PLC, a leading international company specializing in high-performance components and subsystems for the aerospace, defense, and selected energy markets, has secured a £4.2 million (US\$5.6 million) contract with BAE Systems for the supply of innovative nose radome technology to enable the effective operation of a pioneering Multi-Function Array radar system on the Typhoon. The U.K. has committed to developing game-changing technologies which will equip RAF Typhoons with a world-leading electronic warfare capability, in addition to traditional radar functions, including wide-band electronic attack. BAE Systems and Leonardo are on contract to deliver the European Common Radar Systems Mk 2 (ECRS Mk 2) which equips RAF pilots with the ability to locate, identify and suppress enemy air defenses using high-powered jamming. As part of this program, Meggitt has used its advanced composite expertise to design a new higher and broader bandwidth radome to protect the instrumentation from environmental effects, prevent electromagnetic interference whilst being aerodynamically stable and highly transmissive for the AESA radar system's operational modes.



Meggitt secures radome contract with BAE Systems

Photo: Meggitt

### Airbus signs contract for 38 Eurofighters with Germany



Eurofighter Quadriga

Photo: Bundeswehr

Airbus has signed a contract to deliver 38 new Eurofighter aircraft to the German Air Force. This makes Germany the largest ordering nation in Europe's biggest defense program. The order, also known by its project name Quadriga, covers the delivery of 30 single-seater and eight twin-seater Eurofighters. Three of the aircraft will be equipped with additional test installations as Instrumented Test Aircraft for the further development of the Eurofighter program. The renewed order from Germany secures production until 2030 and comes at a strategically important time for the program. In addition to an expected Eurofighter order from Spain to replace its legacy F-18s, procurement decisions in Switzerland and Finland are imminent in 2021. The variant offered in Switzerland corresponds to the configuration of the German Quadriga order. The equipment includes the world's latest electronic radar, future-proof hardware and software and unlimited multi-role capability for engaging air and ground targets.



## MILITARY AND DEFENCE

### Boeing secures more than US\$800 million in Middle East training and support contracts



Boeing will provide pre- and post-delivery training, maintenance, and logistics support for the Qatar Emiri Air Force's fleet of F-15QA aircraft  
Photo: Boeing

Boeing has acknowledged three foreign military sales contracts with the U.S. Air Force for training services and support in the Middle East, valued at more than US\$800 million. The first previously unannounced contract was awarded in 2019 and will support the Qatar Emiri Air Force (QEAF) with F-15QA program management, maintenance and aircrew training valued at US\$240 million over a five-year contract period. Boeing also received a separate not-to-exceed US\$68 million contract to provide maintenance and logistics support for the QEAF during their pre-delivery training for the F-15QA aircraft, which will commence early next year. The QEAF will send pilots and weapon system operators to the U.S., where the aircrews will learn how to independently operate the F-15QA ahead of receiving their new aircraft. Training will include in-person instruction, simulation events and flying operations and will be held near Boeing's F-15 production facility in the U.S. through mid-2021. Following this, Boeing will establish and operate an aircrew and maintenance training center for the QEAF at Al Udeid Air Base, Qatar, through 2024. A third contract awarded in November and valued at more than US\$500 million will provide the QEAF with in-country spares and logistics support once the aircraft are delivered to Qatar.

## INFORMATION TECHNOLOGY

### IFS helps Marshall Aerospace & Defence Group scale its global defense manufacturing and service business

To ensure visibility and control over mission-critical business processes such as manufacturing and maintenance, repair, and overhaul (MRO), international defense manufacturer and service provider Marshall Aerospace and Defence Group turned to global enterprise applications company IFS for a comprehensive enterprise applications platform. Having embarked on a group-wide initiative to increase agility, competitiveness, and profitability, the company needed an enterprise applications suite that could scale with its manufacturing line of business and at the same time eliminate information silos and process inconsistencies across its divisions and sites. Following a competitive bid process, Marshall selected IFS Applications™ 10 as it offered comprehensive and robust support for its complex project and composite manufacturing business, together with an MRO solution for heavy maintenance for its Hercules C-130 and other aerospace and defense customers. By standardizing processes with IFS, Marshall is able to monitor and analyze all business data from a centralized location while benefiting from a modern platform for support activities. The IFS solution is used throughout the value chain, from first contact with customers to estimating, planning, project management, production, shipping, MRO and in-service support activities. The company also leverages the IFS platform to manage all suppliers and contractors and to address complex trade control requirements of the international defense industry.

## OTHER NEWS



Berlin Brandenburg Airport (BER)

Photo: AirTeamImages

With the opening of **Berlin Brandenburg Airport (BER)** on October 31, 2020, **AeroGround Berlin GmbH**, a subsidiary of **AeroGround Flughafen München GmbH**, commenced ground handling services at the new location. By gaining the Lufthansa Group and Eurowings as new clients at the capital city airport, AeroGround has significantly expanded its market position. AeroGround Berlin has thus become the market leader in ground handling services at the Berlin airport following its relocation. The long-term handling agreement with Deutsche Lufthansa also includes the subsidiaries Swiss, Austrian Airlines, and Brussels Airlines and comprises a handling volume of around 20,000 to 30,000 aircraft movements a year. The range of services provided by AeroGround Berlin covers aircraft and baggage handling on the apron, fresh water and toilet services, bus transport on the apron for passengers and crews, and baggage tracing. In addition to apron services for aircraft and baggage handling, AeroGround's commission for handling Eurowings passenger flights also covers all passenger handling, including check-in, gate support, and other services such as baggage tracing and ticketing. As well as the roughly 8,000 to 10,000 Eurowings passenger flights each year, AeroGround is also taking on the handling of overnight airmail flights.

## OTHER NEWS

**AVIAA**, the global group purchasing organization for business aviation which provides procurement services for over 1,500 aircraft, has been active during the Coronavirus pandemic. Thirty-three new executive aviation destinations have been added to its international FBO network, each delivering attractive benefits and savings for its predominantly U.S. and European operator members. JetSet Services is one of the sizeable new suppliers, bringing in 25 airport handling locations all over Greece, including Athens, Mykonos, Heraklion and Santorini. Netherlands and Belgium-based ASL Group adds Maastricht Aachen and Antwerp International to the portfolio, while US FBO Stancraft Jet Center introduces its Coeur d'Alene handling facility in Idaho, a destination rapidly growing in popularity with US leisure flyers. In Central Europe, Capital Handling brings in Riga International – a frequent stop destination for Europe, Russia and Asia and in the U.K., prestigious brand Harrods Aviation expands AVIAA's FBO presence in London Luton and Stansted Airports. AviaPartner Executive's newest FBO in Palma de Mallorca has just been added to the AVIAA network, complementing its stations in Ibiza, Malaga and Gerona. The new Palma FBO offers domestic and international handling, aircraft fueling, catering, and cleaning, together with flight support, ground transfer, and bespoke concierge services.



AviaPartner Executives newest FBO in Palma de Mallorca

Photo: AVIAA



Photo: JetBlue tailfins

test option with Vault provides convenience, quick turnaround, and accuracy. Vault facilitates all testing conducted by its collaborating laboratory. JetBlue customers have access to a dedicated customer support phone line through the process.

**JetBlue** has announced that **Aruba** is the first Caribbean nation to partner with the airline for seamless entry testing through JetBlue's testing partner, **Vault**. The decision by Aruba to begin accepting the convenient COVID-19 PCR test facilitated by Vault's technology platform for JetBlue customers arriving on the island was made after assessing the supervised testing process. It also comes as a result of the airline's initiative to work with destination regions to promote safer travel with easy testing. JetBlue and Aruba are equally dedicated to helping keep those working and traveling safe while providing viable options for those who want or need to travel, including those seeking to vacation. Aruba has required negative COVID-19 PCR test results since reopening to visitors, all in order to protect travelers and residents and allow them to enjoy the beauty of the island and contribute to the tourism industry that drives the Aruban economy. The supervised at-home test facilitated by Vault's platform is the first and only saliva-based test accepted for entry of JetBlue customers by Aruban authorities. The

The three global airline alliances, **oneworld**, **SkyTeam**, and **Star Alliance**, are in full support of the **International Civil Aviation Organization's** (ICAO) second-phase **Council on Aviation Recovery Task Force** (CART) report released on November 10. Together, they urge governments to implement the report guidelines for passenger testing protocols, as well as the adoption of digital health pass technology, so air travel may safely resume. Government-imposed travel and entry restrictions continue to significantly impact global travel demand. Meanwhile, COVID-19 testing has emerged as an important part of an

end-to-end solution to enable the safe restart of international travel by potentially reducing the reliance on the blunt instrument of blanket quarantines." We welcome the publication of the updated CART report which, among other things, calls for the serious consideration of screening and testing as a means for easing travel and border restrictions, and reviving the travel and tourism industry and the global economy," said Star Alliance CEO Jeffrey Goh. "A robust protocol for testing will also provide further evidence to demonstrate that air travel is not a material cause for infections and will pave the way for a framework of trust to



Photo: Airline alliances

be established between countries." On behalf of their 58 member airlines, representing over 60% of world airline capacity and carrying over 1.87 billion passengers annually prior to the COVID-19 crisis, the three alliances are calling for a harmonized approach to testing that will form the foundation of a trust framework, as recommended by the ICAO guidelines.



## OTHER NEWS

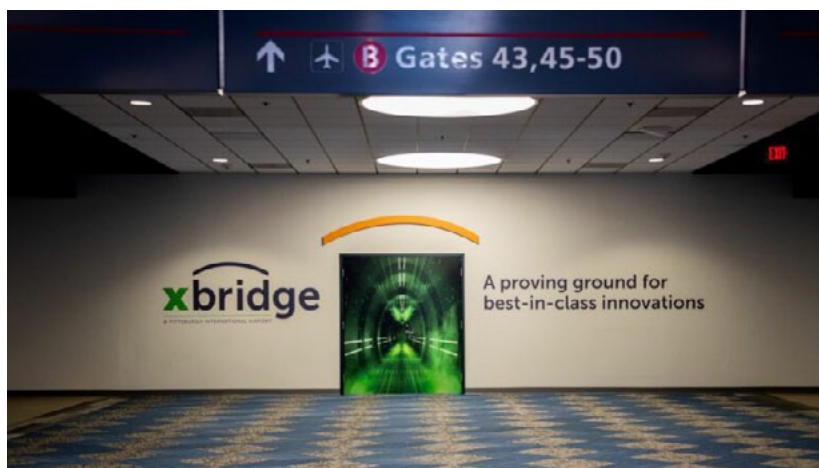


Photo: PIT's latest transformative venture is the xBridge

the various parts of an airport, such as concessions and the arrivals area. "Innovation centers spark creativity. You can't plan innovation," Karolick said. "You need to create an environment and ecosystem to make it happen. This space has everything we need to tap into the collective brainpower of our industry and region, design innovative solutions, and accelerate the development of those solutions." PIT has been at the cutting edge of the industry with several recent initiatives, including Neighborhood 91, the first development in the world dedicated to industrializing the additive manufacturing industry; a first-of-its-kind microgrid that will power the entire airport via onsite natural gas wells and solar panels; and automated floor scrubbers augmented with UV lights to set the standard for maintaining clean and healthy terminals. Like those milestones, the xBridge will be an integral part of the airport—in this case, at the end of Concourse B. The focal point of the center will be the xGate, a functional boarding gate that will operate as a working lab to test out concepts to improve air travel, Karolick explained. "The xGate will be able to simulate a real, active gate and holding area," she said. "And then we can actually test innovations on pilot flights coming in with our airline partners." Working in tandem with other companies on initiatives will be a key part of the xBridge's success. As the airport itself has become a testing ground for new technology, including robotics and AI, this innovation center will focus those efforts into a space custom-built for ideation, experimentation, and collaboration. Partner companies will be announced in the coming months.

The next step forward at **Pittsburgh International Airport** (PIT) will lead the airport industry into the future from inside the Airside Terminal. PIT's latest transformative venture is the xBridge, a 10,000-ft<sup>2</sup> innovation center custom-built to nurture the evolution of the industry and inspire creative solutions to aviation's many challenges. "The xBridge is a physical manifestation of the innovative mentality we've been cultivating here at PIT for years," said Katherine Karolick, Senior Vice President of Information Technology. "This will be a proving ground for new technology that will benefit the airport, our airline partners and the passengers we collectively serve." Commonly found in the tech sector, innovation centers bring various aspects of the product development process together into one space devoted to maximizing brainpower, resources and testing new ideas in real time. For example, the xBridge will contain maker space, an open design studio, and mockups of

## INDUSTRY PEOPLE



Jinnah Hosein

• Boeing has appointed **Jinnah Hosein** as the company's vice president of Software Engineering, effective immediately. In this newly created role, Hosein will report to **Greg Hyslop**, Boeing chief engineer and senior vice president of Engineering, Test & Technology, and will focus on further strengthening Boeing's focus on software engineering across the enterprise. Hosein will lead a new, centralized organization of engineers who currently support the development and delivery of software embedded in Boeing's products and services. The team will also integrate other functional teams to ensure engineering excellence throughout the product life cycle. Hosein brings extensive experience as a software engineering leader across several innovative, high-tech companies. He joins Boeing after serving as

vice president of Software Engineering for Aurora, a self-driving vehicle company, in Palo Alto, California. He led the company's software organization for the development of those vehicles and developed Aurora's high-integrity software life cycle to deploy autonomous architecture to on-road vehicles.



Joseph O'Brien

• **Joe O'Brien** will retire at the end of this year as Deputy CEO and Chief Commercial Officer of Engine Lease Finance (ELFC). O'Brien joined the company in September 2006 after sixteen years with the then parent company, BTMU Capital Corporation, including serving as a Board Member of ELF from 2000. Since joining the company as EVP Sales and CCO he led the sales team to more than US\$3 billion in engine acquisitions through sale and leaseback, OEM orders and various collaborations. **Julian Jordan**, Executive Vice President and Head of New Business

has assumed responsibility for all engine acquisitions and management of the sales and marketing team. **Joe Hussar**, Executive Vice President and Head of Portfolio has assumed responsibility for all remarketing efforts in addition to his roles managing engine sales, collaboration with INAV and capital markets.



Constanze Hufenbecher and Antonio Schulthess

• As part of the restructuring program RISE, Lufthansa Technik AG will change the structure of its Executive Board responsibilities. In future, the Executive Board will consist of a Chief Executive Officer (CEO), a Chief Operating Officer (COO) and a Board member for Finance and Human Resources. The COO will then carry

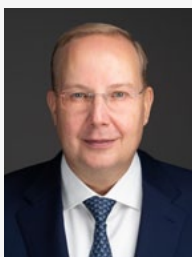
## INDUSTRY PEOPLE

responsibility for all operating divisions. As part of this reorganization, **Constanze Hufenbecher** (currently Chief Financial Officer and responsible for the VIP & Special Mission Aircraft Services business unit) and **Antonio Schulthess** (currently responsible for human resources, lean and process management and the Engines and Aircraft Systems business units) have decided to leave Lufthansa Technik at the end of the year to pursue new entrepreneurial challenges. The Supervisory Board will soon decide on the appointment of the new Executive Board member for the Finance and Human Resources departments. **Dr Johannes Bussmann** remains CEO of Lufthansa Technik, while **Soeren Stark** will continue in his responsibility for the operational business as COO.



Sebastian Albouy

• Inflight The Jet Centre (ITJC), part of the Inflight Group of companies, based at London Stansted Airport, has welcomed **Sebastien Albouy** as the newly appointed General Manager of its MRO business, effective immediately. He is taking over the role from **Alan Barnes**. Albouy joins from ABS Jets in Prague where he was Chief Technical Officer. Prior to joining the Czech corporate jet operator, he held various consulting roles in the MRO industry. He was also General Manager of Embraer's first Executive Jets Service Centre at Paris Le Bourget Airport.



Remco Steenbergen

• The Supervisory Board of Deutsche Lufthansa AG has appointed **Remco Steenbergen** as a new member of the company's Executive Board. Steenbergen will assume the position of Chief Financial Officer effective January 1, 2021. His contract will run until December 31, 2023. After the resignation of **Ulrik Svensson** and **Thorsten Dirks**, **Carsten Spohr**, Chairman of the Executive Board of Deutsche Lufthansa AG, took over the responsibilities of the CFO on an interim basis. With the appointment of Steenbergen, the Finance division will be re-established. It will include controlling and risk management, corporate finance, accounting

and balance sheets, taxes, purchasing, and mergers and acquisitions. Most recently, Steenbergen was Chief Financial Officer of Barry Callebaut Group based in Zurich, Switzerland. Prior to this, the Dutch citizen worked at Philips and at KPMG.



Ben Minicucci (l) and Brad Tilden (r)

• Alaska Air Group's board of directors has released that **Brad Tilden** will retire as Chief Executive Officer on March 31, 2021, and **Ben Minicucci**, president of Alaska Airlines and a member of the Alaska Air Group board, will succeed him. Tilden will continue to serve as Alaska's board chair. "This announcement is the culmination of a multi-year succession planning process," said **Patricia Bedient**, Alaska Air Group lead independent director. "The board has complete confidence in Ben's ability to lead Alaska to great success in the years to come. We are also grateful to Brad for his outstanding leadership during his eight years as CEO. With Ben as CEO and Brad continuing as chair, Alaska's future is bright."



Mike Jennings

• Aviation service provider ACC Aviation has appointed **Mike Jennings** to the role of Vice President, Commercial Sales. The organization, which established its North American subsidiary at the end of 2018, has seen substantial growth despite the challenges faced as a result of the COVID-19 pandemic, and has brought Jennings on board to further accelerate its development in this region and across the Americas. Jennings joins ACC following successful roles as Director of Charter Operations for Eastern Air Lines and, most recently, Chapman Freeborn. Throughout his career, he has managed charter programs for high-profile clients, including meetings and incentives, professional and collegiate sports, marine industry, travel management and government agencies.



Katy Zhao

GA Telesis (GAT) has named **Katy Zhao** as Director of Business Development China with the Engine Strategy Group. Zhao is one of several industry pros recently to join the Engine Strategy Group as the scope of Turbine Vision 2020 grows. Zhao gained wide-ranging experience in the aviation jet engine business through her 20 years in China with General Electric Aviation and CFM International. She began her career as a GE field service representative and later moved to the CFM leasing division. Her most recent positions included sales and services responsibility with the airlines and MROs in the South China region.

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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	Now	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
A319-100	DVB Bank	V2522-A5	2375	2005	Now	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	ALTAVAIR	CFM 56-5B6/P		1999	Now	Sale / Lease	Clive Bowen	clive.bowen@altavair.com	+44 2075351602
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
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	Now	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
A320-200	DVB Bank	V2527-A5	2164	2004	Now	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
A320-214	DVB Bank	CFM56-584/3	3767	2009	Q1/2021	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
A320-230	DVB Bank	V2527-A5	4552	2010	Now	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
A320-230	DVB Bank	V2527-A5	2395	2005	Now	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
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	Q4/2020	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	Presidio Aircraft Leasing	CF6-80E1A3	871	2007	Now	Dry / ACMI	Stephen Haire	shaire@aelfinc.com	+1 312 772 1613
A330-200	Presidio Aircraft Leasing	CF6-80E1A3	472	2002	Now	ACMI	Stephen Haire	shaire@aelfinc.com	+1 312 772 1613
A330-200	Presidio Aircraft Leasing	CF6-80E1A3	700	2005	Now	Dry / ACMI	Stephen Haire	shaire@aelfinc.com	+1 312 772 1613
A330-223	Presidio Aircraft Leasing	PW4168A	970	2008	Now	Dry / ACMI	Stephen Haire	shaire@aelfinc.com	+1 312 772 1613
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	Q4/2020	Sale / Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
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	BBAM	CFM56-7B20/3	35150	2009	Dec 2020	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
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	CFM56-7B27	30654	2003	Q1/2021	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
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	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				
(2) CF34-10E6	Now - Lease	DASI	Joe Hutchings	joe.hutchings@dasi.com	+1 954-478-7195
(1) CF34-3B1 (dual release tag)	Now - Sale	FL Technics	Modestas Valiusevicius	m.valiusevicius@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	Oct 2020 - Sale / Lease	Castlelake	Stuart MacGregor	Stuart.macgregor@castlelake.com	+44 207 190 6138
(2) CF6-80E1A3	Now - Lease	Presidio Aircraft Leasing	Stephen Haire	shaire@aelfinc.com	+1 312 772 1613
<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	Conrail Aviation	Kevin Milligan	kevin@conrail.com	+1 949-933-0797
(2) CFM56-7B (all thrust levels)					
(1) CFM56-5C4	Now - Lease	Presidio Aircraft Leasing	Stephen Haire	shaire@aelfinc.com	+1 312 772 1613
(1) CFM56-5B4/P (full QEC)	Now - Lease	FTAI Aviation LLC	Tom McFarland	tmcfarland@ftaiair.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
(5) 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				
(1) CFM56-5B2/P	Now - Sale / Lease	Castlelake	Stuart MacGregor	Stuart.macgregor@castlelake.com	+44 207 190 6138
(1) CFM56-5B4/P	Now - Sale / Lease				
(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 Desautniers	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.				

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# 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) 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	Sep 20 - 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) V2533-A5	Now - Sale / Lease	Castlelake	Stuart MacGregor	Stuart.macgregor@castlelake.com	+44 207 190 6138
(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,	Now - Sale	Setna IO	David Chaimovitz	david@setnaio.com	+1-312-549-4459
(1) GTC331-9B					
(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,	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) RE220RJ, (1) PW126 RGB, (1) PW901A					
(1) APS1000-C12, (1) APS1000-C3					
GTC331-9A (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	Castlelake	Stuart MacGregor	Stuart.macgregor@castlelake.com	+44 207 190 6138
(1) GTC331-9B	Now - Sale / Lease	DASI	Chris Glascock	Chris.Glascock@dasi.com	+1 954-801-3592
(2) GTC331-9A, (1) 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 GTC331-9A, (1) APU GTC331-9B	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	kebach@lhaero.com	+49-6731-497-368

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