

# Weekly Aviation Headline News

## WORLD NEWS

### UK airport installs £3.5 million new radar system

Teesside International Airport in the UK flicked the switch to launch its new £3.5million airfield radar system, as it also begins a new recruitment drive. The airport says it is the first of its kind in the UK to be used as a full surveillance radar and will replace the old system that was originally commissioned in October 1987. The new radar will be used to monitor the airport's 215 cubic miles of airspace, is fitted with technology to prevent interference from wind farms and will be futureproofed for decades to come.

### Lufthansa Cargo posts record earnings

Lufthansa Cargo achieved the best result in its 26-year history in the 2020 financial year. Revenue rose by 11% to 2.76 billion euros, while adjusted EBIT amounted to 772 million euros (previous year: 1 million euros). This corresponds to a margin of 28% (previous year: 0 percent). A total of 6.5 billion freight tonne kilometers (-27 percent) were sold last year. Average load factor improved by 7.8 percentage points to 69.1%, while cargo capacity shrank by 36%.

### RECARO receives additional 737 MAX seat order

Recaro Aircraft Seating has received additional orders to outfit Alaska Airlines' new B737MAX aircraft with 13 shipsets of the CL4710 and BL3530 seats. Alaska is the first carrier to order more Boeing B737MAX aircraft after it was cleared by the FAA. According to RECARO, the BL3530 offers passengers premium comfort and innovative amenities, and its low weight appeals to customers as it contributes to reduced fuel consumption and minimises the aircraft's carbon footprint.



Etihad's cargo operation recorded a strong performance.

Photo: Etihad Cargo

## Etihad capacity reduced in wake of pandemic

While cargo revenues grow strongly

Etihad Airways has announced its financial and operating results for 2020, recording a 76% fall in passengers carried throughout the year (4.2 million, compared to 17.5 million in 2019) because of lower demand and reduced flight capacity caused by the unparalleled global downturn in commercial aviation.

As a consequence of the Covid pandemic and ensuing flight and travel restrictions, total passenger capacity was reduced by 64% in 2020 to 37.5 billion Available Seat Kilometres (ASKs), down from 104 billion in 2019, with the seat load factor declining to 52.9%, 25.8 percentage points lower compared to 2019 (2019: 78.7%).

The airline recorded US \$1.2 billion passenger revenues in 2020, down by 74% from US \$4.8 billion in 2019, due to fewer scheduled services and drastically fewer people travelling.

**"Etihad stood firm and is ready to play a key role as the world returns to flying."**

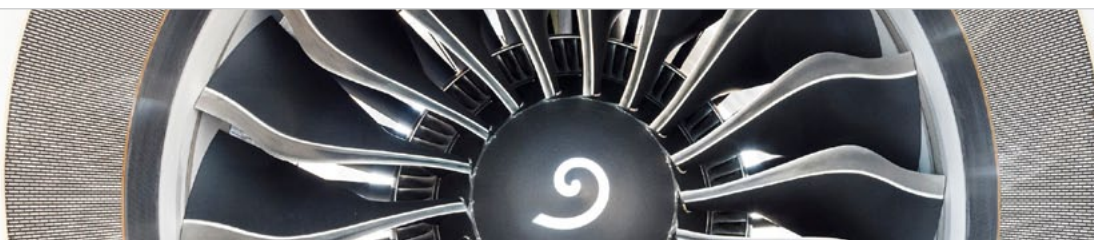
*Tony Douglas, Group CEO, Etihad Airways*

A contributing factor to this was the total suspension of passenger services into and out of the UAE from end of March until early June 2020 to limit the spread of Covid, in line with a UAE government mandate. More than 80% of total passengers carried in 2020

were flown during the first three months of the year, demonstrating the precipitous drop in demand as the global crisis deepened over the course of the year.

The airline's cargo operation, on the contrary, recorded an extremely strong performance, with a 66% increase in revenue from US \$0.7 billion in 2019 to US \$1.2 billion in 2020, driven by huge demand for medical supplies such as Personal Protective Equipment (PPE) and pharmaceuticals, paired with limited global airfreight capacity. Cargo yield saw an improvement of 77%.

*Continued on page 3*





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Overall, the airline reported an operating loss of US \$1.70 billion (2019: US \$0.80 billion) in 2020, with the EBITDA turning to negative US \$0.65 billion (2019: positive US \$0.45 billion).

Tony Douglas, Group Chief Executive Officer, said: "Covid shook the very foundation of the aviation industry, but thanks to our dedicated people and the support of our shareholder, Etihad stood firm and is ready to play a key role as the world returns to flying. While nobody could have predicted how 2020 would unfold, our focus on

optimising core business fundamentals over the past three years put Etihad in good stead to respond decisively to the global crisis. We have taken bold action to protect our people and our guests, develop an industry-leading health and hygiene programme, and restructure our business to better position us for recovery. As the world's first airline to vaccinate all our operating pilots and cabin crew against Covid, we are ready to welcome back travellers to experience best-in-class travel with Etihad Airways."

## AIRCRAFT & ENGINE NEWS

### AFG Aviation Ireland completes acquisition of four Airbus A330-200F aircraft

AFG Aviation Ireland, a wholly owned subsidiary of Aircraft Finance Germany GmbH, has completed the acquisition of four Airbus A330-200F freighter aircraft bearing MSN 1688, MSN 1708, MSN 1584, and MSN 1594 from Qatar Airways Group (Qatar) for CMA CGM Air Cargo (France), the new air cargo division of French container logistics and shipping giant CMA CGM S.A. All four aircraft will be operated by Air Belgium on behalf of CMA CGM Air Cargo. The transaction closed in two phases. The first two aircraft were delivered in early February from AFG to CMA CGM and the second two followed in late February 2021.

### GA Telesis signs agreement for acquisition of fleet of 777-300ER aircraft

GA Telesis has signed an agreement to acquire a fleet of 777-300ER aircraft, powered by GE90-115B engines, with an undisclosed seller. With the world's leading aviation ecosystem and given the relative size of the acquisition, GA Telesis' plan for this fleet will encompass a broad strategy of aircraft leasing, engine leasing, as well as airframe and engine part-out. GA Telesis has achieved great success with the 777 platform, from the world's first-ever 777 part-out to the multitude of aircraft it has acquired and managed over the past decade. Most recently, GA Telesis acquired three aircraft from All Nippon Airways for part-out, which followed an award for the Cathy Pacific 777 fleet disposition contract over seven years.

### Breeze Airways takes delivery of second Embraer E190 aircraft

Nordic Aviation Capital (NAC) has delivered one Embraer E190, MSN 19000055, to Breeze Airways on lease. This is the second aircraft to deliver as part of a fifteen E190 aircraft lease agreement made with Breeze Airways. Breeze Airways is a new ultra-low-cost airline start-up scheduled for take-off in 2021. Breeze's mission is to make the

### BOC Aviation signs purchase-and-leaseback agreements with IndiGo for eight A320neo aircraft



IndiGo has signed agreements for eight new A320neo aircraft

Photo: AirTeamImages

BOC Aviation Limited (BOC) has signed purchase-and-leaseback agreements with InterGlobe Aviation (IndiGo) for eight new Airbus A320neo aircraft powered by CFM Leap engines. The aircraft are scheduled to be delivered in the second half of 2021. Riyaz Peermohamed, Chief Aircraft Acquisition & Financing Officer, IndiGo, said: "We are pleased to further strengthen our existing relationship with BOC Aviation. The addition of these eight A320neo aircraft demonstrates our confidence in the future growth of the aviation market in India."

### JetBlue takes delivery of first Airbus A321neo aircraft featuring reimagined Mint

JetBlue has formally taken delivery of its first Airbus A321neo aircraft configured with the airline's reimagined premium Mint® experience and an all-new onboard layout, featuring comfort and connectivity perks that set the airline apart from other U.S. carriers. The aircraft arrived at JetBlue's home at New York's John F. Kennedy International Airport (JFK) on February 26, from the Airbus production facility in Hamburg, Germany. JetBlue's A321neo with Mint features 16 Mint suites – including two Mint Studios™ – and 144 core seats. It will first operate on select flights between New York-JFK and Los Angeles International Airport (LAX) this summer. This latest delivery brings JetBlue's total fleet count to 270 aircraft and is the airline's 16th A321neo and the first of this aircraft type to feature Mint.



Travelers can spot the A321neo with Mint by its unique "Ribbons" tailfin  
Photo: JetBlue



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## AIRCRAFT & ENGINE NEWS

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### Norwegian cancels major aircraft order and books US\$1.5 billion charge

Having secured bankruptcy protection in both Norway and Ireland in 2020, low-cost carrier Norwegian Air (Norwegian) has taken a NEK12.8 billion (US\$1.5 billion) charge and cancelled its current order of 88 narrow-body Airbus jets. Last year Norwegian cancelled its remaining orders for 97 aircraft with Boeing, while also seeking compensation from the planemaker for the grounding of 737 MAX jets and technical problems relating to the 787 Dreamliner. The intention is for Norwegian to extricate itself from its current restructuring process with appreciable less debt and many fewer aircraft to avoid bankruptcy. From an original fleet of 140 aircraft the carrier is looking to negotiate terms with lessors to allow it to reduce its fleet size to 53; currently it is operating just ten aircraft but hopes to increase that number as demand for air travel returns. Norwegian is running the risk of running out of cash by the end of March if it is unable to successfully restructure its debt and liabilities, while the termination of both the Boeing and Airbus purchase contracts necessitated a fourth-quarter 2020 charge of NEK4.8 billion. According to Reuters news agency, Norwegian's total liabilities had fallen to 56.2 billion crowns by the end of December from NEK66.8 billion on Sept. 30, while its interest-bearing debt dropped NEK8.3 billion to NEK40.2 billion. It hopes to cut its debt to about NEK20 billion crowns and raise NEK4 billion to NEK5 billion from new shares and hybrid capital. Norway has already agreed to contribute NEK1.5 billion crowns. (US\$1.00 = NEK 8.67 at time of publication.)

### China Eastern Airlines signs purchase contract for five C919 aircraft with COMAC



China Eastern Airlines and COMAC contract signing Photo: Wang Jiliang

China Eastern Airlines has officially signed a purchase contract for C919 aircraft with Commercial Aircraft Corporation of China (COMAC) in Shanghai on March 1, 2021. Five C919 aircraft would be introduced in the first batch, and China Eastern Airlines would become the world's first airline to operate the new aircraft. This is an important step for China Eastern Airlines in the

introduction and commercial operation of the China-made aircraft as a pioneer, after the successful establishment of One Two Three Airlines (OTT Airlines) to operate China-made ARJ21 aircraft. The five C919 aircraft would be based in Shanghai and will fly from Shanghai to Daxing District of Beijing, Guangzhou, Shenzhen, Chengdu, Xiamen, Wuhan and Qingdao to improve the market share of China Eastern Airlines in these markets and bring a "brand new experience" to the passengers of the China-made aircraft.

### China still not ready to re-certify 737 MAX

China's Civil Aviation Administration (CAAC) remains one of the last major markets to withhold re-certification of the Boeing 737 MAX, with no clear indication being given of any anticipated timeline for the troubled jet to return to its skies. China was one of the first countries to ground the 737 MAX after two fatal crashes, the first involving Lion Air and the second involving Ethiopian Airlines. China has indicated it wants to examine and approve all changes to the 737 MAX software, while also having its pilots retrain on the new software, prior to awarding re-certification. Additionally, China wants investigations into the causes of the Ethiopian and Indonesian crashes to be completed prior to re-certification. This would be a major blow for Boeing, though investigators in Ethiopia have indicated that the final report could be issued on the second anniversary of the crash, which is March 10. China's three largest carriers Air China, China Southern, and China Eastern, operate the 737 MAX, as do ten other Chinese airlines. Combined, Chinese airlines accounted for a quarter of current MAX sales prior to its grounding. With the 737 MAX having returned to the skies in the U.S., Europe, Australia, Brazil, and Saudi Arabia, China is yet to confirm when it will carry out final testing so that recertification can take place.



China Southern Airlines Boeing 737 MAX Photo: AirTeamImages

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# PART 145

# MAINTENANCE

## MAINTENANCE CAPABILITIES

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|                       | Borescope Inspection | Boreblend | Top Case | C-Check | Thrust Rating Conversion (per SB) | Engine Preservation | LRU and QEC |
|-----------------------|----------------------|-----------|----------|---------|-----------------------------------|---------------------|-------------|
| CFM56-3               | •                    | •         |          | •       | •                                 | •                   | •           |
| CFM56-5A              | •                    | •         | •        | •       | •                                 | •                   | •           |
| CFM56-5B              | •                    | •         | •        | •       | •                                 | •                   | •           |
| CFM56-5C              | •                    | •         | •        | •       | •                                 | •                   | •           |
| CFM56-7B              | •                    | •         | •        | •       | •                                 | •                   | •           |
| CFMI LEAP-1A          | •                    | ▼         |          | •       | •                                 | •                   | •           |
| CFMI LEAP-1B          | •                    | ▼         |          | •       |                                   | •                   | •           |
| CF34-3 Series         | •                    |           |          | •       |                                   |                     | •           |
| CF34-8 Series         | •                    |           |          | •       |                                   |                     | •           |
| CF34-10E              | •                    |           |          | •       |                                   |                     | •           |
| CF6-80C2/E1           | •                    |           |          | •       |                                   | •                   | •           |
| V2500-A1              | •                    |           |          | •       |                                   |                     | •           |
| V2500-A5              | •                    |           |          | •       | •                                 |                     | •           |
| PW100 Series          | •                    |           |          | ▼       |                                   |                     |             |
| PW150A                | •                    |           |          | ▼       |                                   |                     |             |
| PW1100G-JM (GTF)      | •                    |           |          | ▼       |                                   |                     | ▼           |
| PW1500G (GTF)         | ▼                    |           |          | ▼       |                                   |                     | ▼           |
| PW4000-94"            | •                    |           |          |         |                                   |                     | •           |
| PW4000-100"           | •                    |           |          |         |                                   |                     | •           |
| APS3200               | •                    |           |          |         |                                   |                     |             |
| APS2300               | •                    |           |          |         |                                   |                     |             |
| GTCP36                | •                    |           |          |         |                                   |                     |             |
| GTCP131               | •                    |           |          |         |                                   |                     |             |
| GTCP131-9A            |                      |           |          |         |                                   | •                   |             |
| GTCP331               | •                    |           |          |         |                                   |                     |             |
| TRENT 500             | •                    |           |          |         |                                   |                     | •           |
| TRENT 700             | •                    |           |          |         |                                   |                     | •           |
| TRENT 800             | •                    |           |          |         |                                   |                     | •           |
| TRENT 900             | •                    |           |          |         |                                   |                     | •           |
| TRENT 1000            | •                    |           |          |         |                                   |                     |             |
| TRENT XWB             | •                    |           |          |         |                                   |                     |             |
| RB2110535E4           | •                    |           |          |         |                                   |                     | •           |
| RB211-524             | •                    |           |          |         |                                   |                     | •           |
| GE90-110B, 113B, 115B | •                    |           |          |         |                                   |                     |             |
| GE9x-1B               | •                    |           |          |         |                                   |                     |             |
| GP7200 Series         |                      |           |          |         |                                   | •                   |             |

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## Rolls-Royce successfully completes taxiing of its 'Spirit of Innovation' aircraft

Rolls-Royce has successfully completed the taxiing of its 'Spirit of Innovation' aircraft, the latest milestone on its journey to becoming the world's fastest all-electric plane. For the first time, the plane powered along a runway propelled by its powerful 500hp [400kw] electric powertrain and the latest energy storage technology developed to set world speed records and enable a new generation of urban air mobility concepts. The taxiing of the plane is a critical test of the integration of the aircraft's propulsion system, ahead of actual flight-testing. The first flight is planned for the spring and, when at full power, the combination of its electrical powertrain and advanced battery system will power the aircraft to more than 300mph, setting a new world speed record for electric flight. Minister for Business Paul Scully said: "The taxiing of Rolls-Royce's 'Spirit of Innovation' forms part of an exciting new chapter in aviation as we move towards its first flight in the spring. Set to be the world's fastest electric plane, this pioneering aircraft highlights the value of close collaboration between industry and government. "The U.K. is committed to achieving net-zero carbon emissions by 2050. Through government grants for research and development, we're championing innovation in the aerospace sector to meet this ambitious target as we build back greener from the pandemic." The ACCEL program, short for 'Accelerating the Electrification of Flight' includes key partners YASA, the electric motor and controller manufacturer, and aviation start-up Electroflight. The ACCEL team has continued to innovate while adhering to the U.K. Government's social distancing and other health guidelines.



'Spirit of Innovation' aircraft

Photo: Rolls-Royce'

## Austrian Airlines sells three Boeing 767s to U.S. company MonoCoque Diversified Interests



Austrian Airlines sold three Boeing 737-300 aircraft

Photo: AirTeamImages'

Austrian Airlines has found a buyer for its three long-haul aircraft that were up for sale. The Boeing 767-300ER aircraft will go to U.S. company MonoCoque Diversified Interests (MDI). The purchase agreement has already been signed. The parties have agreed not to disclose the purchase price. The first aircraft, registered OE-LAT, will leave Vienna at the beginning of March for Pinal Airpark, Arizona. The aircraft is currently undergoing all the necessary preparations for the handover. The next transfer flight is scheduled for May with the Boeing 767 registered OE-LAX. At an average age of 28.5 years, the three B767s sold are among the oldest aircraft in the Austrian Airlines fleet. The remaining three B767s are between 20 and 22 years old. After the handover is completed, Austrian

Airlines will still have nine long-haul jets at its disposal, which will connect Austria with destinations around the globe – from the U.S.A. to the Far East. In detail, these are six Boeing 777s with over 300 seats and three Boeing 767s with over 200 seats. Until the beginning of 2022, 28 aircraft will leave the fleet of Austria's home carrier: in addition to the aforementioned three Boeing 767-300ERs, 18 Dash turboprops and seven Airbus A319 jets will be handed over. Ten turboprops have already left Vienna, with the remaining eight to follow soon. This means that the fleet will consist of around 60 aircraft by the beginning of 2022. As mainly smaller aircraft will be retired, this corresponds to a capacity reduction of around 20%.

## Honeywell expands popular ultraviolet treatment product line

Expanding on its popular UV Treatment System for airliners, Honeywell has debuted a new, smaller version of the product that includes a UV wand and portable backpack. Designed to help reduce pathogens found on high-touch surfaces in a quick and low-cost manner, this new device can be easily used in a multitude of transportation options, from buses and trains to cars and small aircraft. The Honeywell UV Treatment Wand includes a handheld wand approximately 12 inches long to dispense UVC light. The entire system weighs roughly 15 pounds and can be used in any size space where a person will fit, including vehicles, buildings and other shared spaces. The backpack portion of the device, which also rolls up like a small piece of luggage, contains a battery that lasts for one hour of steady usage. It takes about 2.5 hours to recharge the battery when fully drained. The new portable option contains a single UVC lamp, and it can be operated for as little as 10 cents per charge. The wand can be used at varying speeds and distances from a target surface. At its ideal dosage and speed, the wand can be used to cover approximately one square meter in 17 seconds, or about 3.5 meters per minute. The device could treat high-touch surfaces in a midsize business jet cabin, cockpit and lavatory in less than 15 minutes. Unlike chemical cleaning solutions, UV light does not leave chemical residues on surfaces or require storage and frequent replenishment of chemicals. When properly applied, UVC lights have been found to be capable of delivering doses that clinical studies show reduce or inactivate various viruses and bacteria, including SARS-CoV (including SARS-CoV-2 which causes COVID-19) and MERS-CoV. Results vary based on UV dosage and application, and no testing has been done specifically on protection against the COVID-19 disease.



Photo: Honeywell UV wand'

## MRO & PRODUCTION NEWS

### CAS purchases new Hydraulics Universal test stand

Certified Aviation Services (CAS) has purchased a new Series 920 Universal Independent Dual System Hydraulic test stand. The Series 920 stand is manufactured by A&P Hydraulics based in Landrum, South Carolina. The Series 920 stand features 80gpm, 5,000psi independent dual systems which will be utilized to test hydraulic components such as thrust reverser actuators, servos, braking manifolds, linear actuators, power transfer units, primary control actuators, etc. The test stand also has a hydraulic pump and motor test system for testing engine-driven pumps, AC motor pumps, and hydraulic motor generators.

### Meggitt awarded contract to supply cockpit indicators for Boeing 737 MAX

Meggitt, a leading international company specializing in high performance components and sub-systems for the aerospace, defense, and selected energy markets, has signed a long-term agreement with Boeing for the supply of cockpit indicators on the 737 MAX. The contract covers a suite of cockpit indicators across all versions of the aircraft. This contract expands Meggitt content on the 737 MAX program, which already includes the engine and APU fire detection and suppression systems, electrical power conversion equipment, and elastomeric seals. Deliveries are scheduled to commence in Q2 2022.

### ATS Texas Pneumatic Systems selected as Honeywell channel partner

ATS (Aviation Technical Services) has released that its subsidiary business of Texas Pneumatic Systems (TPS) has been selected by Honeywell to join Honeywell's global channel partner network. This agreement enables TPS to be listed as a certified Honeywell repair station for select aviation parts, creating a partnership benefiting mutual customers surrounding the repair, overhaul, and service of a range of airframe and engine components and their related accessories.

### Inter-Tec Group opens new European business in Sligo, Ireland

Inter-Tec Group, which offers specialist engineering, design, and analysis solutions across the broad aviation sector, is to open

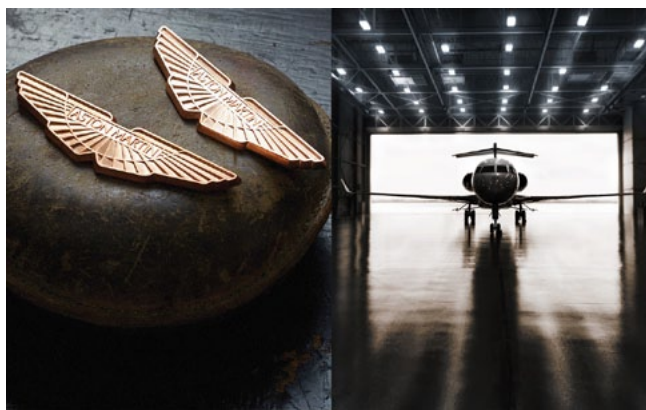
### Recaro Aircraft Seating enters regional market with Embraer

Recaro Aircraft Seating is entering the regional jet market with its first Embraer installation. The BL3710 and SL3710 seats will be retrofitted on the Embraer E190 and line fitted in Brazil on the Embraer E195-E2 for KLM Cityhopper, the regional arm of KLM Royal Dutch Airlines. "Expanding into the regional jet market is a tremendous opportunity for Recaro to grow our capabilities and strengthen our customer base," said Dr. Mark Hiller, CEO and Shareholder of Recaro Aircraft Seating. "Embraer has been a fantastic party through this experience. I have great confidence in this move and our ability to rise to a new challenge." KLM Cityhopper is the first regional jet customer for Recaro. Slated for a Q1 2021 delivery, the BL3710 and SL3710 seats are positioned in a hybrid layout on the E190 and E195-E2 KLM Cityhopper regional jets. The E195-E2 is configured with 132 seats, while the E190 has 100 seats. The lightweight SL3710 combines an ergonomic design and durable parts to create a comfortable seat with a reduced total cost of ownership for airlines. Specifically created for short- and medium-haul flights, the BL3710 offers a six-way adjustable headrest, additional back support, and the modular seat design ensures a streamlined cabin layout and minimal maintenance.



Recaro is equipping Embraer E195-E2 and E-190 KLM Cityhopper aircraft with SL3710 (photo) and BL3710 seats  
Photo: Recaro Aircraft Seating

### Aston Martin and Bombardier to collaborate on custom design services for Bombardier business jets



Bombardier and Aston Martin – two iconic brands

Photo: Bombardier

Aston Martin and Bombardier have signed a letter of intent to collaborate on custom design services for Bombardier business jets. The collaboration would give customers the opportunity for a truly unique design experience, with the meeting of the top creative minds from the luxury automotive and

private jet industries. Aston Martin and Bombardier are known for creating masterpieces of engineering in a style which never takes a back seat. This desire to collaborate reflects a common drive to innovate, and opens up new possibilities for the cabin experience aboard Bombardier's Challenger and Global business jets. "Aston Martin has a highly refined set of automotive design principles, driven by the meticulous application of proportion, craft, and technical innovation," said Aston Martin Vice President and Chief Creative Officer, Marek Reichman, "Bombardier's customers share our owners' desire for unique contemporary design statements. We are truly excited at the prospect of collaborating with Bombardier's accomplished design team to bring our respective design expertise together. Challenger and Global aircraft will give us an opportunity to take Aston Martin design to new heights."



## MRO & PRODUCTION NEWS

a new European base in Sligo, the Republic of Ireland, complementing its established Prestwick, Scotland home. The new business, Inter-Tec Aero Limited becomes the principal site of business for EASA approvals. It secured EASA Part 21J Design Organisation Approval (DOA) in February, replicating the capabilities and certification benefits provided up until now by Inter-Tec Services. Inter-Tec Aero has moved in alongside the Causeway Aero Group, a complementary EASA Part 21G production and EASA Part 145 maintenance business which has served as partner supplier to Inter-Tec for several years on a number of design-and-build projects, mainly focused on interiors and aircraft seating. The new base will enable Inter-Tec to build on an already solid global client base, serving as a regular supply chain company to companies including Airbus, Triumph Aviation, BAE Systems, Spirit Aero Systems, Leonardo, GKN and The Babcock Group. Fred Gorrie, Inter-Tec Group Managing Director, and his four directors / post holders will travel regularly between the two bases. Its current engineering team at Prestwick will remain a key resource to the Group, with Inter-Tec Aero becoming 'the principal place of business' for EASA approvals. When the market improves, the plan is for Inter-Tec Aero to recruit local technical specialists.

## MTU Maintenance weathers 2020 better than expected

MTU Maintenance saw only an 18% reduction in incoming engines across its entire portfolio in 2020, which was above market expectations of a drop of 45% in shop visits for the global aftermarket for commercial engines. MTU Maintenance attributes this stability to its broad engine portfolio, with 30 engine types, including the newly added LEAP engine as well as other popular narrow-body engines such as the CFM56, PW1100G-JM and V2500 engine families, which are likely to recover faster after the crisis. Further, MTU Maintenance has a diverse customer base which includes, among others, cargo operators who have flown consistently throughout the pandemic, and military customers such as the U.S. Air Force at its facility in Vancouver, Canada. "In fact, we even saw campaign wins of US\$5.5 billion, the second highest in MTU Maintenance history," said Michael Schreyögg, Chief Program Officer, MTU Aero Engines. "This is proof that customers trust in us, our financial strength and intelligent solutions in critical times. Our engine expertise and ability to get the most out of an engine at minimum cost is highly valuable to both airlines and

## GKN Fokker Services redelivers first Alliance Airlines aircraft as part of heavy maintenance checks deal



Alliance Airlines Fokker 70 aircraft

Photo: GKN Aerospace

Fokker Services, a GKN Aerospace company, has redelivered its first Alliance Airlines Fokker 70 aircraft as part of a five-year heavy maintenance checks agreement. The Fokker Services Asia facility now provides base checks for the Australian operator's fleet of Fokker 70 and Fokker 100 aircraft. This new deal, effective until 2025, builds on Fokker Services Asia's reputation as a trusted and highly skilled aircraft MRO provider in the Asia-Pacific region. Fokker Services first partnered with Alliance Airlines in 2002, when the airline began operating Fokker aircraft. Over the years it has provided services and capabilities including repairs, engineering services, parts trading, and modifications such as ADS-B Out for Alliance Airlines' Fokker aircraft. Along the way, Fokker Services has continuously leveraged its OEM expertise as the Type Certificate holder. This new agreement builds on the 2018 Fokker Services Asia heavy maintenance checks deal for the airline's Fokker 50 fleet.

## Stevens Aerospace authorized to install PRIZM Cabin Lighting systems in all four facilities



PRIZM Lighting aircraft interior

Photo: Stevens Aerospace

Stevens Aerospace has released that all four of the company's MRO facilities have been designated as authorized installation centers for the highly regarded PRIZM LED Cabin Lighting systems. The solid-state technology is cost-effective, app-based, and provides a cabin environment that creates stunning aesthetics and even impacts passengers' state of mind. PRIZM's customizable full-color

LED spectrum mood lighting can be controlled three ways: via a mobile app, by browsing directly to the system, or in conjunction with existing cabin lighting controls. The system offers upwash, downwash, lower accent, galley, lavatory and cupholder lighting. According to Stevens Director of Sales and Marketing Phil Stearns, part of the value of PRIZM'S technology is in the longevity of the LED lighting. "Not only does the PRIZM Lighting system give owner-operators control of colors and zones at a very affordable price, the cost of ownership over the years will be considerably less because LED technology lasts 10 to 15 times longer than the more expensive florescent tubes."

## MRO & PRODUCTION NEWS

lessors both now and in time, when our industry recovers.” “These campaign wins included over 300 new engine MRO contracts, including for single shop visits, and 56 new customers or existing customers sending new engine types to our facility,” added Martin Friis-Petersen, SVP MRO Programs, MTU Aero Engines. The CFM56 engine family made up over one-third of these customers. “In turn, we are confident in this program and are even adding a CFM56-7B line to our facility in Berlin to ensure fast response and high flexibility for our customers.” On the basis of this, MTU Maintenance remains committed to its organic growth strategy and is continuing with on-going investments for instance in the ramp-up at EME Aero, Poland, and expansions at its sites in Berlin-Brandenburg and Hannover in Germany, moving to a new facility in Vancouver, Canada, as well as constructing a second facility at MTU Maintenance Zhuhai, China, and a new greenfield repair facility, MTU Maintenance Serbia.

## FINANCIAL NEWS

### SIA Engineering signs MOU to acquire SR Technics Malaysia

SIA Engineering Company (SIAEC) has signed a Memorandum of Understanding (MOU) with SR Technics Switzerland (SRT) relating to the potential acquisition (in part or whole) of SRT Malaysia by SIAEC. SRT Malaysia, located in Selangor, Malaysia, is a subsidiary of SRT, incorporated in January 2013 to provide component repair, testing and overhaul services with a focus on Airbus A320, A330, A340 and Boeing 737NG aircraft in the Asia-Pacific region and beyond. SRT is a leading independent maintenance, repair and overhaul (MRO) service provider for mainly Airbus and Boeing aircraft, engines and components, along with engineering services and training. SRT has a diversified global customer base and a long history of MRO experience, having started out as the maintenance and engineering section of Swissair, previously Switzerland's national carrier. The MOU was signed following a review of the synergies that SRT Malaysia would bring to SIAEC's existing component repair and overhaul services and fleet management programs. Pursuant to the MOU, SIAEC will commence due diligence on SRT Malaysia, and SIAEC and SRT will subsequently enter into negotiations on the terms of the transaction, with the objective

### Jet MS acquires RAS Group and extends services to London Biggin Hill Airport



Photo: Jet MS CEO Vytis Žalimas

On February 26, Jet MS, a global provider of base and line maintenance services for business and regional aircraft, and a part of the global aerospace business group Avia Solutions Group, acquired the U.K.-based RAS Group, comprising RAS Completions and RAS Interiors. RAS Group is a long-established aircraft interior, exterior, and completions company specializing in interior repairs, manufacturing, and exterior paint refinishing for both VIP and commercial aircraft. Founded in 1996, RAS Group is based at London Biggin Hill Airport, a world-renowned center for international business aviation. RAS Group's wide range of aviation services, including aircraft exteriors, VIP and business jet interiors, commercial interiors, paintwork protection, aircraft interior design, aircraft seating, helicopter painting, military aircraft painting and coatings, aircraft galleys, and cabin stowage, makes the acquisition a valuable one-stop shop for all aircraft interior and exterior requirements and acts as a bolster for Jet MS's existing position in the market. In addition to RAS Group's excellent suite of interior and completion services, Jet MS plans to expand the offering to include base maintenance, line maintenance, and spare parts trading services to its clients. To further these goals and ambitions the Jet MS team is working in close cooperation with the airport team with a focus on further improving and expanding capabilities and employment opportunities for the future. Jet MS's CEO, Vytis Žalimas said: “The acquisition of RAS Group gives Jet MS a valuable and complementary range of services to offer its international clients. We are excited to welcome RAS Group's founders Russell Pitt and Chris Ransley, along with their industry-leading team, to our growing family of aviation professionals and we are thrilled about the next chapter of growth for our enlarged and strengthened group of businesses.”

### American Express Ventures makes strategic investment in Boom Supersonic



Photo: Boom's supersonic airliner Overture

Boom Supersonic has announced a strategic investment from American Express Ventures. The funds will support the continued development of Boom's flagship product, the supersonic airliner Overture. Overture is Boom's 65- to 88-seat supersonic airliner, capable of running on 100% sustainable aviation fuel. The supersonic aircraft is slated to roll out in 2025 and begin commercial flights by 2029. Built on the core principles of speed, safety and sustainability, Overture will fly twice as fast as conventional jets over more than 500 transoceanic routes worldwide. Boom currently has US\$6 billion in pre-orders of Overture aircraft. “Boom is building a supersonic passenger aircraft that will make travel faster and more sustainable,” said Harshul Sanghi, Global Head of Amex Ventures. “Travel has been a key part of American Express' heritage and it remains an integral part of our Card Members' lifestyles. We are excited to support Boom's development and invest in the future of travel.”



## FINANCIAL NEWS

of finalizing and entering into the definitive agreements in respect of the transaction.

### Lufthansa Group posts operating loss of €5.5 billion in 2020

Revenue at the Lufthansa Group fell to €13.6 billion in 2020 (previous year: €36.4 billion). Despite rapid and extensive cost reductions, the Lufthansa Group had to report an Adjusted EBIT of minus €5.5 billion (previous year: profit of €2.0 billion). The Adjusted EBIT margin was minus 40.1% (previous year: plus 5.6%). The operating cash drain in the fourth quarter of 2020 was around €300 euros per month. Progress in restructuring limited the impact of the intensified pandemic situation on earnings. Personnel costs were significantly reduced through workforce reductions, crisis agreements with social partners and short time working. At year-end 2020, the number of employees was 110,000, around 20% lower than the previous year. The reported EBIT loss was around €1.9 billion lower at minus €7.4 billion, mainly due to exceptional write-downs on aircraft and goodwill. Net income amounted to minus €6.7 billion (previous year: €1.2 billion). Capital expenditure at the Lufthansa Group was reduced by around two-thirds year on year in 2020 to €1.3 billion (previous year: €3.6 billion), mainly based on extensive agreements with aircraft manufacturers. These provide for the postponement of aircraft deliveries in 2021 and beyond, so that annual capital expenditure will be lower than originally planned also in future years. Adjusted free cash flow was negative €3.7 billion (previous year: €203 million), with around €3.9 billion paid out for ticket reimbursements alone. This was offset by €1.9 billion in new bookings. The remaining cash outflow was limited by strict management of receivables and payables. Net debt including lease liabilities increased to around €9.9 billion (previous year: €6.7 billion). Pension liabilities increased by 43% to €9.5 billion (previous year: €6.7 billion), mainly due to the drop in the interest rate used to discount pension obligations to 0.8% (previous year: 1.4%). As of December 31, 2020, the Lufthansa Group had available liquidity of around €10.6 billion, of which €5.7 billion related to unutilized government stabilization measures. By the end of 2020, the Lufthansa Group had drawn down government stabilization funds of around €3.3 billion, of which €1 billion has already been repaid in the meantime. (€1.00 = US\$1.20 at time of publication.)

### Volocopter raises US\$240 million

Volocopter, the urban air mobility specialist has announced a successful signing of its Series D funding round, raising an additional US\$240 million and taking the total raised to US\$390 million. This fresh injection of funds will allow the company to maintain its leading role as an urban air mobility (UAM) company through its VoloCity battery-powered air taxi for cities, enabling it to push for certification and an accelerated launch of its initial commercial routes. In addition to the VoloCity for autonomous passenger taxi flights, Volocopter intends to invest in the VoloDrone for the transportation of goods and is currently the first and only electric vertical take-off and landing (eVTOL) company to receive Design Organisation Approval (DOA) by the European Union Aviation Safety Agency (EASA). It expects its first commercial air taxi routes to be operational within the next two years. Volocopter has performed several milestone flights in Helsinki, Stuttgart, Dubai, and over Singapore's Marina Bay in recent years. While the first routes are yet to be announced, the company has committed to establishing air taxi services in Singapore and Paris, with plans to expand many more routes in the US, Asia, and Europe.



Photo: Volocopter

### Canada's CAE to buy L3Harris Technologies' military training division in US\$1.05 billion deal



Photo: CAE

In a boost to its defense business in the U.S. market, the aviation training specialist CAE Inc (CAE) has agreed to buy L3Harris Technologies' (L3Harris) military training division. It is expected the deal will augment the development of training systems for remotely piloted aircraft, submarines, fighter and bomber aircraft; the company is currently a major producer of full-flight simulators for both Boeing and Airbus and the deal will double its specialist's defense business. It is anticipated that revenues will be split roughly 50:50 between defence and civil after the deal closes, as expected, in the second half of 2021. CAE is the world's largest civil aviation training company, and the deal will be funded by a private placement of approximately US\$550 million from two institutional investors, while one of Canada's principal pension funds, Caisse de dépôt et placement du Québec (CDPQ), has confirmed it will be investing US\$375 million, making it the largest shareholder in the company. Having posted a 50% slump in third-quarter profit, CAE expects the acquisition of L3Harris to add to earnings in the first full year after closing and projected annual cost savings of approximately US\$27.57 million to US\$35.7 million after the second year. Once the deal has been finalized, the training division of CAE will be based in Tampa, Florida.

## INFORMATION TECHNOLOGY

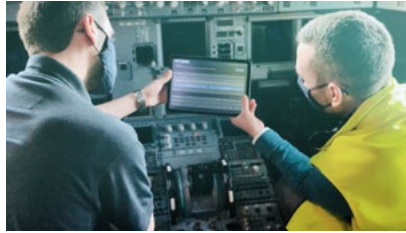
**Greater Bay Airlines** (HGB), a Hong Kong-based airline has announced its partnership with **FLYdocs** to digitize maintenance records for its fleet of Boeing 737-800s. The start-up airline founded by Hong Kong tycoon Bill Wong Cho-bau signed a five-year deal with FLYdocs to automate and digitize its aircraft records. The partnership will enable the operator to capitalize on digital transformation by utilizing the seamless integration between FLYdocs® and M&E platform AMOS for full compliance-on-demand.

Software and technology provider **Sabre Corporation** has announced the implementation of Sabre's Recovery Manager Operations solution for China's national flag carrier, **Air China**, as well as **China Eastern Airlines**, to enhance their operational recovery capability and future growth. Air China and China Eastern are both now using Sabre's Recovery Manager Operations solution to identify operational issues across their extensive domestic and international networks which will help to further increase the footprint of Sabre's advanced decision support solutions in China's marketplace. Recovery Manager Operations will empower the airlines to manage flight disruptions by proposing immediate contingency and recovery plans, while minimizing downtime impact, improving operational performance, maximizing staff productivity and, ultimately, boosting customer satisfaction.

## OTHER NEWS

**Mesa Air Group** has entered into a conditional agreement with **Gramercy Associates** based in London, England, to develop a European-based joint venture. The joint venture will apply for a new Air Operator's Certificate (AOC) in the European Union using CRJ-900 aircraft with the goal of introducing a Capacity Purchase Agreement or ACMI (Aircraft, Crew, Maintenance, and Insurance) in passenger or cargo services in Europe. Gramercy Associates is headed by Tony Davis, former CEO of **Tiger Airways** and bmibaby. Under the agreement, Mesa will own 49% of the partnership once the Air Operator's Certificate is obtained. The current plan is to begin operations by the end of 2021.

**Airbus** has announced that as a result of successful negotiations with **IG Metall** union and works council, which represents



AVIATAR Technical Logbook

Photo: LHT

offers prefilled text blocks and automated input masks that capture technical issues of the aircraft during flight and on the ground. It therefore replaces time-consuming manual entries into paper books and improves data quality as well as transparency. The new solution works with any hardware device (e.g., tablet, smartphone, or desktop computer) and provides pilots with access to aircraft status anywhere and anytime. It also offers back-up processes in case of connectivity issues. Real-time data availability, directly connected with the maintenance and engineering (M&E) system, ensures maintenance on arrival and enables a seamless pilot-to-maintenance collaboration – leading to decreased turnaround times and costs. In addition, the standardized data structure helps airlines to gain insights into trend analytics.

**Wizz Air** becomes the first customer of the Technical Logbook solution of AVIATAR, the independent platform for digital products and services developed by **Lufthansa Technik**. Through the newly introduced solution, Wizz Air will replace the manual and paper-based process of capturing technical issues during flight/on ground and implement the seamless digital pilot-to-maintenance collaboration application. AVIATAR's Technical Logbook

The **International Air Transport Association** (IATA) has reported that passenger traffic fell in January 2021, both compared to pre-COVID levels (January 2019) and compared to the immediate month prior (December 2020). Because comparisons between 2021 and 2020 monthly results are distorted by the extraordinary impact of COVID-19, unless otherwise noted all comparisons are to January 2019 which followed a normal demand pattern. Total demand in January 2021 (RPKs) was down 72.0% compared to January 2019. That was worse than the 69.7% year-over-year decline recorded in December 2020. Total domestic demand was down 47.4% versus pre-crisis (January 2019) levels. In December it was down 42.9% on the previous year. This weakening is largely driven by stricter domestic travel controls in China over the Lunar New Year holiday period. International passenger demand in January was 85.6% below January 2019, a further drop compared to the 85.3% year-to-year decline recorded in December.



Photo: Hanover Airport, Germany

**Asia-Pacific airlines'** January traffic plummeted 94.6% compared to the 2019 period, virtually unchanged from the 94.4% decline registered for December 2020 compared to a year ago. The region continued to suffer from the steepest traffic declines for a seventh consecutive month. Capacity dropped 86.5% and load factor sank 49.4 percentage points to 32.6%, by far the lowest among regions.

**European carriers** had an 83.2% decline in traffic in January versus January 2019, worsened from an 82.6% decline in December compared to the same month in 2019. Capacity sank 73.6% and load factor fell by 29.2 percentage points to 51.4%.

**Middle Eastern airlines** saw demand plunge 82.3% in January compared to January 2019, which was broadly unchanged from an 82.6% demand drop in December versus a year ago. Capacity fell 67.6%, and load factor declined 33.9 percentage points to 40.8%.

**North American carriers'** January traffic fell 79.0% compared to the 2019 period, up slightly from a 79.5% decline in December year to year. Capacity sagged 60.5%, and load factor dropped 37.8 percentage points to 42.9%.

**Latin American airlines** experienced a 78.5% demand drop in January, compared to the same month in 2019, worsened from a 76.2% decline in December year-to-year. January capacity was 67.9% down compared to January 2019 and load factor dropped 27.2 percentage points to 55.3%, highest among the regions for a fourth consecutive month.

**African airlines'** traffic dropped 66.1% in January, which was a modest improvement compared to a 68.8% decline recorded in December versus a year ago. January capacity contracted 54.2% versus January 2019, and load factor fell 18.4 percentage points to 52.3%.



## OTHER NEWS

workers in Germany, no redundancies will be enforced in Germany before year-end 2023. As Airbus aims to implement a restructuring program which will affect 15,000 positions in its workforce, it will be looking to early retirements, voluntary redundancy policies, and internal transfers to provide the solution to a situation created by a drop in demand for aircraft during the COVID-19 crisis. Airbus employs approximately 55,000 workers in Germany and 1,300 employees have taken voluntary redundancy, while 1,000 employees at its subsidiary, **Premium Aerotec**, which manufacture major plane components, took voluntary redundancy between November 2020 and February 2021, according to Holger Junge, head of the group works council. "Production figures have stabilized," Junge confirmed, "But we have not overcome the crisis." He added that Airbus has agreed to avoid further job cuts through short-time work and reducing hours by up to 20% from 2022. Airbus is now in an awkward position as a consequence of extended lockdowns in Europe as, in January, it chose to adopt an optimistic outlook with ambitions for a partial recovery in aircraft production of up to 22% from 2022 onward.

## INDUSTRY PEOPLE



Uwe Zachau

Experienced leader **Uwe Zachau** assumes the role of Managing Director and CEO of MTU Maintenance Canada on March 1. Furthermore, industry insider **Nezam Moghadassian** took over the role of President and General Manager of MTU Maintenance Dallas in December 2020. Zachau will be heading up the facility in Delta, B.C. He takes over from **Helmut Neuper**, who ran the facility over the past four years and left the company of his own accord.

• MRO service provider SR Technics has announced that **Olaf Christoph** has joined its Business Development team. Christoph comes to SR Technics after



Olaf Christoph

nearly twenty years as Sales Director for new engines and engine services at GE Aviation, where he handled the accounts of several major airline customers in the European region. Prior to that, he spent a decade in various manufacturing roles, including quality management, production, and industrial engineering. With the addition of Christoph, the Business Development team, headed by Senior Vice President **Caroline Vandedrinck**, will continue to accelerate growth in the company's core areas such as engine services and line maintenance thus consolidating its strong position on the MRO market, leveraging opportunities based on the current industry outlook and emphasizing its longstanding commitment to an outstanding customer experience.



Air Canada Express Embraer ERJ-175

Photo: AirTeamImages

**Air Canada** has announced an agreement to amend the Capacity Purchase Agreement (CPA) with **Jazz Aviation**, a wholly owned subsidiary of **Chorus Aviation**, under which Jazz currently operates certain regional **Air Canada Express** flights. Through the revised agreement, Air Canada will transfer operation of its Embraer E175 fleet to Jazz from **Sky Regional** and Jazz will become the sole operator of Air Canada Express services. The revisions to the CPA are subject to Jazz reaching an agreement with the Air Line Pilots Association, International. If this condition is satisfied, the CPA will be amended on a retroactive basis to January 1, 2021. "Air Canada is consolidating its regional flying with Jazz in response to the ongoing devastating impact of COVID-19 upon the airline industry. This necessary realignment of our regional services will help Air Canada achieve efficiencies and reduce operating costs and cash burn by consolidating its regional operations with one provider. Moreover, by streamlining the regional fleet, this agreement will also position Air Canada to operate more competitively with a single provider as traffic returns following the pandemic," said Richard Steer, Senior Vice President, Operations and Express Carriers. As a result of the CPA revisions and consolidation of regional flying, Air Canada expects to realize CA\$400 million in cost reductions over the 15-year term of the agreement (CA\$43 million per year until 2026 and CA\$18 million per year thereafter). (US\$1.00 = CAD1.26 at time of publication.)

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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       | Nihalaero     | CFM56-5B5        | 3651    | 2010  | Apr 2021  | Sale / Lease      | Tejpal Singh       | tejpal@nihalaero.com            | +65 90260551        |
| A319-100       | Nihalaero     | CFM56-5B5/3      | 3744    | 2010  | Apr 2021  | Sale / Lease      | Tejpal Singh       | tejpal@nihalaero.com            | +65 90260551        |
| 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        | 2249    | 2004  | Now       | Sale / Lease      | Steve Zissis       | info@bbam.com                   | +1 787 665 7039     |
| 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 | CFM56-5B4/3      | 3831    | 2009  | 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    |
| A320-200       | GA Telesis    | CFM56-5B6/3      | 5393    | 2012  | Jun 2021  | Sale / Lease      | Mauro Francazi     | aircraft@gatelesis.com          | +1-954-676-3111     |
| A320-200       | GA Telesis    | V2527-A5         | 2152    | 2004  | May 2021  | Sale / Lease      | Mauro Francazi     | aircraft@gatelesis.com          | +1-954-676-3111     |
| 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    |
| A321-231       | DVB Bank      | V2533-A5         | 6009    | 2014  | Now       | Sale / Lease      | Jonathan Louch     | aircraftsales@dvbbank.com       | +44 207 256 4449    |
| A321-231       | DVB Bank      | V2533-A5         | 6294    | 2014  | Now       | Sale / 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  | Q1/2021   | Lease             | Jonathan Louch     | aircraftsales@dvbbank.com       | +44 207 256 4449    |
| A330-200 (14x) | 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  | Q2/2021   | Sale / Lease      | Maurick Groeneveld | maurick.groeneveld@doric.com    | +49 (0)69 247559931 |
| A330-200       | Doric         | CF6-80E1A4/B     | 883     | 2007  | Q2/2021   | Sale              | Maurick Groeneveld | maurick.groeneveld@doric.com    | +49 (0)69 247559931 |
| 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  | Now       | 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       | DVB Bank      | Trent 772B-60EP  | 1357    | 2012  | Now       | Sale / Lease      | Jonathan Louch     | aircraftsales@dvbbank.com       | +44 207 256 4449    |
| A330-300       | DVB Bank      | Trent 772B-60EP  | 1378    | 2013  | Now       | 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    |
| B737-700       | GA Telesis    |                  |         | 2005  | Apr 2021  | Sale for Part Out |                    | aircraft@gatelesis.com          |                     |
| B737-8         | Orix Aviation | CFM LEAP-1B      | 42825   | 2017  | Q3 2021   | Sale / Lease      | Cian Coakley       | cian.coakley@orix.ie            | +353 87 7760451     |
| B737-8         | Orix Aviation | CFM LEAP-1B      | 42826   | 2017  | Q3 2021   | Sale / Lease      | Cian Coakley       | cian.coakley@orix.ie            | +353 87 7760451     |
| B737-8         | Orix Aviation | CFM LEAP-1B      | 42827   | 2017  | Q3 2021   | Sale / Lease      | Cian Coakley       | cian.coakley@orix.ie            | +353 87 7760451     |
| B737-8         | Orix Aviation | CFM LEAP-1B      | 42828   | 2017  | Q3 2021   | Sale / Lease      | Cian Coakley       | cian.coakley@orix.ie            | +353 87 7760451     |
| B737-8         | Orix Aviation | CFM LEAP-1B      | 42829   | 2017  | Q3 2021   | Sale / Lease      | Cian Coakley       | cian.coakley@orix.ie            | +353 87 7760451     |
| B737-8         | Orix Aviation | CFM LEAP-1B      | 42830   | 2017  | Q3 2021   | Sale / Lease      | Cian Coakley       | cian.coakley@orix.ie            | +353 87 7760451     |
| B737-8         | Orix Aviation | CFM LEAP-1B      | 42831   | 2018  | Q3 2021   | Sale / Lease      | Cian Coakley       | cian.coakley@orix.ie            | +353 87 7760451     |
| B737-8         | Orix Aviation | CFM LEAP-1B      | 42832   | 2018  | Q3 2021   | Sale / Lease      | Cian Coakley       | cian.coakley@orix.ie            | +353 87 7760451     |
| B737-8         | Orix Aviation | CFM LEAP-1B      | 42833   | 2018  | Q3 2021   | Sale / Lease      | Cian Coakley       | cian.coakley@orix.ie            | +353 87 7760451     |
| B737-8         | Orix Aviation | CFM LEAP-1B      | 42835   | 2018  | Q3 2021   | Sale / Lease      | Cian Coakley       | cian.coakley@orix.ie            | +353 87 7760451     |
| B737-8         | Orix Aviation | CFM LEAP-1B      | 63971   | 2018  | Q3 2021   | Sale / Lease      | Cian Coakley       | cian.coakley@orix.ie            | +353 87 7760451     |
| B737-8         | Orix Aviation | CFM LEAP-1B      | 64992   | 2018  | Q3 2021   | Sale / Lease      | Cian Coakley       | cian.coakley@orix.ie            | +353 87 7760451     |
| 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     | 39163   | 2009  | Q4/2021   | Sale / Lease      | Niall Hayden       | niall.hayden@fpg-amentum.aero   | +353 83 154 6475    |
| B737-800       | Nihalaero     | CFM56-7B22/3     | 34548   | 2009  | Jul 2021  | Sale / Lease      | Tejpal Singh       | tejpal@nihalaero.com            | +65 90260551        |
| 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   | Now   | Now       | 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  | Q1/2021   | 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     |



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# THE AIRCRAFT AND ENGINE MARKETPLACE

## Commercial Jet Aircraft (cont.)

| Aircraft Type | Company       | Engine       | MSN   | Year | Available | Sale / Lease | Contact            | Email                        | Phone               |
|---------------|---------------|--------------|-------|------|-----------|--------------|--------------------|------------------------------|---------------------|
| B737-800SF    | GA Telesis    |              | 28826 | 1999 | Q2/2021   | Sale / Lease | Mauro Francazi     | aircraft@gatelesis.com       | +1-954-676-3111     |
| B737-900      | BBAM          | CFM56-7B26/3 | 34953 | 2007 | Now       | Sale / Lease | Steve Zissis       | info@bbam.com                | +1 787 665 7039     |
| B777-300ER    | ALTAVAIR      | GE90-115B    |       | 2006 | Q1/2022   | Sale / Lease | Clive Bowen        | clive.bowen@altavair.com     | +44 2075351602      |
| B777-300ER    | ALTAVAIR      | GE90-115B    |       | 2013 | Q1/2022   | Sale / Lease | Clive Bowen        | clive.bowen@altavair.com     | +44 2075351602      |
| 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    |
| B787-9        | Orix Aviation | Trent 1000   | 63316 | 2018 | Q3 2021   | Sale / Lease | Cian Coakley       | cian.coakley@orix.ie         | +353 87 7760451     |
| B787-9        | Orix Aviation | Trent 1000   | 63321 | 2019 | Q3 2021   | Sale / Lease | Cian Coakley       | cian.coakley@orix.ie         | +353 87 7760451     |

## Regional Jet / Turboprop Aircraft

| Aircraft Type  | Company                    | Engine     | MSN      | Year      | Available | Sale / Lease | Contact         | Email                           | Phone                     |
|----------------|----------------------------|------------|----------|-----------|-----------|--------------|-----------------|---------------------------------|---------------------------|
| 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 |
| SAAB 2000      | Jetstream Aviation Capital | AE2100A    | 031      | 1996      | Q1/2021   | Sale / Lease | Donald Kamenz   | dkamenz@jetstreamavcap.com      | +1 (305) 447-1920 x 115   |
| SAAB 340B CRG  | Jetstream Aviation Capital | CT7-9B     | 224      | 1990      | Q1/2021   | Lease        | Bill Jones      | bjones@jetstreamavcap.com       | +1 (305) 447-1920 x 102   |
| SAAB 340B Plus | Jetstream Aviation Capital | CT7-9B     | 450      | 1998      | Q1/2021   | Lease        | Bill Jones      | bjones@jetstreamavcap.com       | +1 (305) 447-1920 x 102   |

## 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 Valiusevicius | m.valiusevicius@fltechnics.com      | +370 6 54 96179   |
| CF34-8E(s)                        | Now - Sale / Lease     | GECAS Engine Leasing         | Sherry Riley           | engine.leasing@gecas.com            | +1 (513) 782-4272 |
| (2) CF34-10E6 Full QEC            | Now - Sale / Lease     | DASI                         | Joe Hutchings          | joe.hutchings@dasi.com              | + 1 954-478-7195  |
| (1) CF34-10E5A1 Full QEC          | Now - Sale / Lease     |                              |                        |                                     |                   |
| (4) CF34-10E                      | Now - Lease            | Willis Lease                 | Jennifer Merriam       | leasing@willislease.com             | +1 (561) 349-8950 |
| (2) CF34-8C5A1                    | Now - Sale/Lease/Exch. | Magellan Aviation Group      | Anthony Spaulding      | anthony.spaulding@magellangroup.net | +1 980-423-0715   |
| (2) CF34-8C5B1                    | Now - Sale/Lease/Exch. |                              |                        |                                     |                   |
| (2) CF34-8E5A1                    | Now - Sale/Lease/Exch. |                              |                        |                                     |                   |
| (2) CF34-10E6                     | Now - Lease            | Engine Lease Finance         | Declan Madigan         | declan.madigan@elfc.com             | +353 61 291717    |
| <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    |
| (1) CF6-80C2B6F                   | Now - Lease            | FTAI Aviation LLC            | Tom McFarland          | tmcfarland@ftaiair.com              | +1 786 785 0787   |
| (2) CF6-80E1                      | Now - Lease            | DVB Bank                     | Jonathan Louch         | aircraftsales@dvbbank.com           | +44 207 256 4449  |
| (1) CF6-80E1A4B                   | Now - Sale / Lease     | Castlake                     | Stuart MacGregor       | Stuart.macgregor@castlake.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) CFM56-5A                      | Now - Sale             | GECAS Engine Leasing         | Sherry Riley           | engine.leasing@gecas.com            | +1(513)782-4272   |
| (1) CFM56-3C1 unserviceable       | Now - Sale             | KMS Aero                     | Sharon Brady           | sharonbrady@kmsaero.com             | +353 868161287    |
| (2) CFM56-3B1 unserviceable       |                        |                              |                        |                                     |                   |
| (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)  |                        |                              |                        |                                     |                   |



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# THE AIRCRAFT AND ENGINE MARKETPLACE

## Commercial Engines (cont.)

| CFM Engines                  | Sale / Lease           | Company                      | Contact           | Email                               | Phone             |
|------------------------------|------------------------|------------------------------|-------------------|-------------------------------------|-------------------|
| (1) CFM56-5B4/P (full QEC)   | Now - Lease            | FTAI Aviation LLC            | Tom McFarland     | tmcfarland@ftaiaaviation.com        | +1 786 785 0787   |
| (1) CFM56-5B5/P              | Now - Lease            |                              |                   |                                     |                   |
| (1) CFM56-5B6/P              | Now - Lease            |                              |                   |                                     |                   |
| (1) CFM56-5B1/3              | Now - Lease            |                              |                   |                                     |                   |
| (1) CFM56-5B1/P              | Now - Lease            |                              |                   |                                     |                   |
| (2) CFM56-7B26 (full QEC)    | Now - Lease            |                              |                   |                                     |                   |
| (1) CFM56-7B27               | Now - Lease            |                              |                   |                                     |                   |
| (1) CFM56-7B24               | Now - Lease            |                              |                   |                                     |                   |
| (1) CFM56-7B22 (with QEC)    | Now - Lease            |                              |                   |                                     |                   |
| (4) CFM56-7B24/3             | Now - Lease            | Willis Lease                 | Jennifer Merriam  | leasing@willislease.com             | +1 (561) 349-8950 |
| (2) CFM56-5B4/3              | Now - Lease            |                              |                   |                                     |                   |
| (2) CFM56-5C4/P              | Now - Lease            |                              |                   |                                     |                   |
| (1) CFM56-7B24/E             | Now - Lease            |                              |                   |                                     |                   |
| (2) CFM56-5C4                | Now - Lease            |                              |                   |                                     |                   |
| (1) CFM56-7B27/B3            | Now - Lease            |                              |                   |                                     |                   |
| (2) CFM56-5B4/P              | Now - Lease            |                              |                   |                                     |                   |
| (1) CFM56-5B6/P              | Now - Lease            |                              |                   |                                     |                   |
| (2) CFM56-7B26/3             | Now - 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  |
| (1) CFM56-3B2                | Now - Sale             | Nihalaero                    | Tejpal Singh      | tejpal@nihalaero.com                | +65 90260551      |
| (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) CFM56-5C4/P              | Now - Sale / Lease     | Castlelake                   | Stuart MacGregor  | Stuart.macgregor@castlelake.com     | +44 207 190 6138  |
| (1) CFM56-7B26               | Now - Sale / Lease     | GA Telesis                   | Eddo Weijer       | eweijer@gatelesis.com               | +1-954-676-3111   |
| (1) CFM56-5B4/P              | Now - Sale / Lease     |                              |                   |                                     |                   |
| (1) CFM56-5B3/P              | Now - Sale/Lease/Exch. | Magellan Aviation Group      | Anthony Spaulding | anthony.spaulding@magellangroup.net | +1 980-423-0715   |
| (2) CFM56-5B6/P              | Now - Sale/Lease/Exch. |                              |                   |                                     |                   |
| (1) CFM56-7B26               | Now - Sale/Lease/Exch. |                              |                   |                                     |                   |
| <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    |
| (1) GE90-115BL (Propulsor)   | Now - Lease            |                              |                   |                                     |                   |
| <b>LEAP Engines</b>          | <b>Sale / Lease</b>    | <b>Company</b>               | <b>Contact</b>    | <b>Email</b>                        | <b>Phone</b>      |
| (2) 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) PW4056-1C                | Now - Sale             | Magellan Aviation Group      | Anthony Spaulding | anthony.spaulding@magellangroup.net | +1 980-423-0715   |
| (1) PW4062-3                 | Now - Lease            | FTAI Aviation LLC            | Tom McFarland     | tmcfarland@ftaiaaviation.com        | +1 786 785 0787   |
| <b>PW Small Engines</b>      | <b>Sale / Lease</b>    | <b>Company</b>               | <b>Contact</b>    | <b>Email</b>                        | <b>Phone</b>      |
| (1) PW121                    | Now - Sale/Lease/Exch. | Magellan Aviation Group      | Anthony Spaulding | anthony.spaulding@magellangroup.net | +1 980-423-0715   |
| (1) PW127F                   | Now - Sale/Lease/Exch. |                              |                   |                                     |                   |
| (1) PW127M                   | Now - Sale/Lease/Exch. |                              |                   |                                     |                   |
| (1) PW150A                   | Now - Sale/Lease/Exch. |                              |                   |                                     |                   |
| (1) PW123                    | Now - Sale/Lease/Exch. | Willis Lease                 | David Desaulniers | leasing@willislease.com             | +1 (561) 349-8950 |
| (3) PW150A                   | Now - Sale/Lease/Exch. |                              |                   |                                     |                   |
| (4) 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            |                              |                   |                                     |                   |



# THE AIRCRAFT AND ENGINE MARKETPLACE

## Commercial Engines (cont.)

| PW Small Engines     | Sale / Lease           | Company                        | Contact           | Email                               | Phone             |
|----------------------|------------------------|--------------------------------|-------------------|-------------------------------------|-------------------|
| (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. |                                |                   |                                     |                   |
| (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   |
| <b>RB211 Engines</b> | <b>Sale / Lease</b>    | <b>Company</b>                 | <b>Contact</b>    | <b>Email</b>                        | <b>Phone</b>      |
| (1) RB211-535E4      | Now - Sale / Lease     | Castlelake                     | Stuart MacGregor  | Stuart.macgregor@castlelake.com     | +44 207 190 6138  |
| <b>Trent Engines</b> | <b>Sale / Lease</b>    | <b>Company</b>                 | <b>Contact</b>    | <b>Email</b>                        | <b>Phone</b>      |
| (2) Trent 772B-60    | Now - Sale/Lease/Exch. | Rolls-Royce & Partners Finance | RRPF Marketing    | RRPFMarketing@rolls-royce.com       | +44 7528975877    |
| (1) Trent 772C-60    | Now - Sale/Lease/Exch. |                                |                   |                                     |                   |
| (1) Trent-556-61     | Now - Sale/Lease/Exch. |                                |                   |                                     |                   |
| (1) Trent 556A2-61   | 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  |                                |                   |                                     |                   |
| <b>V2500 Engines</b> | <b>Sale / Lease</b>    | <b>Company</b>                 | <b>Contact</b>    | <b>Email</b>                        | <b>Phone</b>      |
| (1) V2522-A5         | Now - Sale/Lease/Exch. | Rolls-Royce & Partners Finance | RRPF Marketing    | RRPFMarketing@rolls-royce.com       | +44 7528975877    |
| (1) V2524-A5         | Now - Sale/Lease/Exch. |                                |                   |                                     |                   |
| (1) V2527-A5         | Now - Sale/Lease/Exch. |                                |                   |                                     |                   |
| (1) V2527E-A5        | Now - Sale/Lease/Exch. |                                |                   |                                     |                   |
| (1) V2527M-A5        | Now - Sale/Lease/Exch. |                                |                   |                                     |                   |
| (1) V2530-A5         | Now - Sale/Lease/Exch. | Willis Lease                   | Jennifer Merriam  | leasing@willislease.com             | +1 (561) 349-8950 |
| (1) V2533-A5         | Now - Lease            |                                |                   |                                     |                   |
| (1) V2527-A5         | Now - Lease            | FTAI Aviation LLC              | Tom McFarland     | tmcfarland@ftaiairline.com          | +1 786 785 0788   |
| (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/Exch. | Magellan Aviation Group        | Anthony Spaulding | anthony.spaulding@magellangroup.net | +1 980-423-0715   |
| (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   | Centaurus Services/MASB      | Paul Bithavas      | paul.bithavas@centaurus.services  | +61 408 389 241     |
| Trent 892B-17 Modules   |                              |                    |                                   |                     |
| (2) GTC331-200ER, (2) GTC331-9A,  | Setna IO                     | David Chaimovitz   | david@setnaio.com                 | +1-312-549-4459     |
| (1) GTC331-9B   |                              |                    |                                   |                     |
| (1) A321 Enhanced Landing Gear 2020 OH                                    | CFM Materials                | Michael Arellano   | Michael.Arellano@cfmmaterials.com | +1-214-988-6676     |
| Neutral CFM56-7B QEC Kit  |                              |                    |                                   |                     |
| (1) RE220, (1) APS3200, (1) GTC331-9A                                     | Magellan Aviation Group      | Drew Megorden      | drew.megorden@magellangroup.net   | +1 704-340-0273     |
| (1) GTC331-9B, (1) GTC331-500B  |                              |                    |                                   |                     |
| A320 Landing gear shipsets  | GA Telesis                   | Danielle Rodon     | landinggearsales@gatelesis.com    | +1 954 865 9314     |
| (2) GTC331-350, (2) APS2300   |                              |                    |                                   |                     |
| (1) APS3200, (1) GTC331-9B  | DASI                         | Chris Glascock     | chris.glascock@dasi.com           | +1 954-801-3592     |
| (1) GTC331-150RJ, (2) GTC331-100M,  |                              |                    |                                   |                     |
| (1) RE220RJ, (1) PW126 RGB, (1) PW901A                                    | Regional One                 | Miguel Bolivar     | mbolivar@RegionalOne.com          | +1 (786)-623-3936   |
| (1) APS1000-C12, (1) APS1000-C3   |                              |                    |                                   |                     |
| GTC331-9A (2), GTC331-9B(2)   | REVIMA APU                   | Olivier Hy         | olivier.hy@revima-apu.com         | +33(0)235563515     |
| GTC331-200, GTC331-250  |                              |                    |                                   |                     |
| APS500C14(3), APS1000C12(2), APS2000                                      | Now - Lease                  | Now - Lease        | Now - Lease                       | Now - Lease         |
| APS2300, APS3200(2), APS5000(2)   |                              |                    |                                   |                     |
| PW901A(4), PW901C(2)  | Now - Sale / Lease           | Now - Sale / Lease | Now - Sale / Lease                | Now - Sale / Lease  |
| TSCP700-4E  |                              |                    |                                   |                     |
| (1) PW901A APU  | Royal Aero                   | Gary MacLeod       | gary@royalaero.com                | +44 (0)141 389 3014 |
| Neutral V2500-A5 QEC Kits (2) 745K9001-64                                 |                              |                    |                                   |                     |
| (1) APU T-62T-40C   | Castlelake                   | Stuart MacGregor   | Stuart.macgregor@castlelake.com   | +44 207 190 6138    |
| (4) GTC331-9A, (1) GTC331-9B, (3) GTC331-350, (1) APS3200, (1) GTC331-200 |                              |                    |                                   |                     |
| Engine stands: CF6-80C2, CFM56-3, CFM56-5, CFM56-7, PW4000                | GA Telesis                   | John Wales         | apu@gatelesis.com                 | +1-417-622-7215     |
| (1) APU GTC131-9A, (1) APU GTC131-9B                                      |                              |                    |                                   |                     |
| Engine stands now available   | Willis Lease                 | Jennifer Merriam   | leasing@willislease.com           | +1 (561) 349-8950   |
| (2) PW901A, (1) PW901C(1), PW125B RGB                                     |                              |                    |                                   |                     |
|   | Lufthansa Technik AERO Alzey | Kai Ebach          | k.ebach@lhaero.com                | +49-6731-497-368    |