

# Weekly Aviation Headline News

## WORLD NEWS

### Brussels Airport reports mixed results in September

Brussels Airport has reported 379,303 passengers passing through Brussels Airport during September. This is just 15.2% of the total number of passengers recorded in September 2019. This negative result is mainly due to the increasing travel restrictions and in particular Spain, Brussels Airport's flagship destination, passing into the red zone. For its part, air freight continues to make progress, with a strong 18.9% increase in volumes observed in September. Brussels Airport continues to outperform global and European air freight growth, according to the airport.

### British Airways fined £20m over data breach

British Airways has been fined £20m (\$26m) by the Information Commissioner's Office (ICO) in the UK for a data breach which affected more than 400,000 travellers. The breach took place in 2018 and affected both personal and credit card data. The incident took place when BA's systems were compromised by its attackers, and then modified to harvest customers' details as they were input. It was two months before BA was made aware of it by a security researcher, and then notified the ICO.

### Qatar Airways network expands to 100 destinations

Qatar Airways has announced the resumption of services to Sofia via Bucharest, marking the 100th destination to be added back to its global network. The three weekly flights to Sofia started from 16 October 2020 and saw the airline's network expand to more than 700 weekly flights across six continents. Qatar Airways Group Chief Executive, His Excellency Mr. Akbar Al Baker, said this was a significant milestone in rebuilding the network.



Korean Air reported positive results in Q2 2020.

Photo: Amadeus

## South Korean aviation in positive climb

But full recovery will take time

The South Korean aviation sector, which had witnessed a sharp decline in the first quarter (Q1) due to COVID-19 pandemic, is showing signs of recovery with the country's two major carriers Korean Air Lines (Korean Air) and Asiana Airlines reporting positive results in the second quarter (Q2) of 2020. However, a full recovery will take time considering the impact of the spread of the pandemic, according to GlobalData, a leading data and analytics company.

Reportedly, Korean Air and Asiana Airlines had a market share of 19.24% and 13.64%, respectively, in Q2 2019. The companies reported

operating losses of KRW56.6bn and KRW292bn, respectively, in Q1 2020. However, the two airlines have turned it around in Q2 2020.

**“Booming online commerce and increased demand for medical equipment helped cargo carriers.”**

*Alisha Bajpai Singh, GlobalData*

Korean Air reported a year-on-year operating profit of KRW148.5bn in Q2 on account of surge in cargo sales. On an annual basis, the pandemic affected the company's revenue by 44%. However, a reduction of 50.1% in operating expenses enabled it to generate profit.

On the other hand, Asiana Airlines reported operating profit of KRW23.4bn. On annual basis, revenue decreased by 49.2% but operating expenses fell by 52.8%, leading to operating profit.

Alisha Bajpai Singh, Company Profiles Analyst at GlobalData, says: “The sector is on the recovery path due to the reduction in the fuel prices, salaries and employee related expenses that enabled the leading airlines to manage costs while increased transportation of emergency equipment strengthened cargo sales mainly from the American routes that

*Continued on page 3*



A close-up photograph of a person in a white lab coat, likely a medical professional, with a stethoscope around their neck and a pink awareness ribbon pinned to their chest. The background is a blurred clinical setting.

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**Engine  
Services**

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further led to the profits.”

The aviation sector experienced shortages in the capacity of airfreight, arising from the grounding of the passenger belly capacity, which increased the airfreight rates. The pandemic strained several carriers to pull cargo to generate cash from the increasing airfreight rates.

Ms Singh continues: “Booming online commerce and increased demand for medical equipment helped cargo carriers. Increased exports of semiconductors, which is the country’s biggest export, coupled with the growing demand of smartphones, televisions, components and memory chips from South Korean companies including Samsung, LG, and SK, further contributed to

the growth of cargo shipments.”

Ms Singh concludes: “The demand for travel and air cargo is expected to rise in 2021. However, overall, it is expected to remain lower than 2019, with considerable COVID-19 related uncertainty expected to linger into 2021.”

## AIRCRAFT & ENGINE NEWS

### First flight of Precision Conversions’ A321-200 PC freighter

321 Precision Conversions, a joint venture between Aircraft Transport Services Group (ATSG) and Precision Aircraft Solutions (PAS), has announced the completion of the first post-conversion flight of the firm’s A321-200PCF freighter. 321 Precision Conversions President Gary Warner confirmed the event, stating “This milestone flight was nominal in all respects, with all primary and secondary systems - including the cargo door and supporting sub-systems, functioning perfectly as designed.” He went on to say: “Based on the results of this maintenance test flight – a pre-requisite prior to entering certification flight testing – we look forward to a brisk progression to full certification.” The passenger A321 aircraft was converted to a Precision Conversions 321-200PCF by Avocet MRO Services, Sanford, Florida.

## Orders and deliveries – Boeing and Airbus

### Airbus v Boeing: Orders and Deliveries

September 2020 YTD

Airbus			Boeing		
Type	Orders	Deliveries	Type	Orders	Deliveries
A220	39	18	737	-413	12
A320 Family	262	282	747	-1	2
A330	-5	9	767	9	20
A350	4	32	777	2	15
A380	0	0	787	22	49
<b>Total</b>	<b>300</b>	<b>341</b>	<b>Total</b>	<b>-381</b>	<b>98</b>

Source: Airbus

Source: Boeing

Airbus delivered 57 commercial aircraft in September 2020 versus 71 aircraft over the same period in 2019. Year to date, Airbus has delivered a total of 341 aircraft which is a reduction of around 40% compared to the same period in 2019 (571 aircraft deliveries).

According to Boeing’s website, the company recorded no orders in September but delivered 11 aircraft with a mix of freighter and passenger aircraft including a 747-8F for UPS, 777F for Lufthansa Cargo and a handful of 787s to other carriers.

## easyJet partner Wright Electric selected for U.S. Department of Energy electric aircraft program



Photo: easyJet Wright Electric

easyJet partner Wright Electric has been selected by the U.S. Department of Energy for a grant program that supports the development of innovative and ultra-efficient electric propulsion systems for use in commercial aircraft. easyJet has been working with Wright Electric in its mission to support the development of an all-electric aircraft program as part of a shared ambition to de-carbonize aviation. Earlier this year Wright Electric unveiled concepts for a 186-seater electric plane engine development program, named Wright 1. Work continues on this single-aisle airliner designed for flights of up to 800 miles, which would cover around 50% of easyJet’s current network. The foundation of Wright’s ground-breaking Wright 1 aircraft is its innovative high-efficiency electric propulsion system. As part of the Department of Energy program (Advanced Research Projects Agency – Energy (ARPA-E)), Wright will design propulsion systems that use cutting-edge innovations in integrated cooling, power electronics, and structural design. The unique innovations across the electric propulsion system will aid the development of aircraft flying entirely on electric power.



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## AIRCRAFT & ENGINE NEWS

### Lufthansa will deploy four Airbus A350-900s to Frankfurt hub

For the duration of the winter timetable (until the end of March 2021), Lufthansa will be deploying four of the currently parked Airbus A350-900s to its hub in Frankfurt. The Airbus A350-900 is one of the most modern and environmentally friendly long-haul aircraft in the world. Over the next few months, the A350-900 will be serving Chicago and Los Angeles from Frankfurt by temporarily replacing the Boeing 747-8 for this period of time. From December onwards, the ultra-modern A350-900 will also be flying from Frankfurt on the route to Tokyo/Haneda instead of the Airbus A340-300. All flights will be operated by Munich-based cabin and cockpit crews. The A350-900 not only offers Lufthansa customers a top product on board, it is also extremely environmentally friendly, efficient, and quiet. Compared to a Boeing 747-8, the Airbus A350-900 consumes around 12 percent less fuel and emits less CO2. At the same time, by operating the A350-900 in Frankfurt, the fleet will be optimally used in an efficient and sustainable way under the current circumstances. Lufthansa's A350-900 fleet currently encompasses 16 Munich-based aircraft. Due to the sharp reduction in the number of flights offered as a result of the corona pandemic, only seven A350-900s will initially be operated at Munich in the winter timetable of 20/21 on routes to North America and Asia.



Photo: Lufthansa A350-900

### SKY express becomes new Airbus customer with order for A320neo aircraft



Athens-based Sky express becomes new Airbus customer

Photo: Airbus

Athens-based airline SKY express has placed a firm order for four A320neo aircraft, becoming a new Airbus customer. In addition, the Greek airline recently leased two A320neos from ACG Aviation Capital Group and on that occasion joined the global list of 430 Airbus operators. The airline has selected CFM-International's Leap-1A engines to power its aircraft. The owner of SKY express and Head of IOGR Group of Companies, Ioannis Grylos, said: "Our cooperation with Airbus, through the acquisition of six brand-new A320neo aircraft, meets our ambition to modernize our fleet and have our company transition to a new era. The combination of the most advanced technology along with the fuel efficiency that this type of aircraft offers, are elements that perfectly match the business planning of SKY express for a contemporary fleet that respects the environment and offers safe and quality services to its passengers."

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## AIRCRAFT & ENGINE NEWS

### VALLAIR leases two A321-200 freighters to SmartLynx Malta

VALLAIR, the mature aircraft and asset specialist, has signed an agreement with SmartLynx to lease two newly converted A321-200 freighters. The aircraft will be the first cargo planes to be operated by SmartLynx. Vallair has been engaged in cargo conversions since 2015 and is the launching lessor of the Airbus A321 freighter (A321F). "We look forward to seeing the A321Fs flying in Europe," says Alistair Dibisceglia, Chief Leasing and Trading Officer for Vallair. "The aircraft will be operated by SmartLynx on behalf of an international freight forwarder and will be based in Malta. The location is ideal for inter European distribution and will help to also alleviate the pressure on congested cargo hubs." The A321F is the greenest narrow-body freighter currently available. "Converting younger aircraft into freighters certainly has environmental advantages," continues Dibisceglia. "As the technology used within the aircraft is younger by default, operators of this freighter can expect to see a 20% reduction in fuel burn per payload. With the surge in demand for air cargo as a result of the pandemic, and the availability of feedstock, we believe that the A321F will be the future of e-commerce and satisfy market demands for the next 20 years."



SmartLynx Malta enters the freighter market with two A321's from Vallair  
Photo: Vallair

### Eve, first spin-off from EmbraerX, launched to shape future of urban air mobility



Photo: Eve Embraer X

Eve Urban Air Mobility Solutions (Eve) has been launched as a new, independent company dedicated to accelerating the Urban Air Mobility (UAM) ecosystem. Eve is developing a full portfolio of solutions to enable the UAM market and ultimately benefit people's lives, including the progression and certification of the company's electric vertical takeoff and landing vehicle (eVTOL), the associated comprehensive services and support network, and the creation of urban air traffic management solutions. André Stein, former head of strategy for EmbraerX, has been appointed CEO of Eve. Eve will benefit from greater focus, speed, and agility, allowing the company to innovate and execute at an accelerated pace in order to fully capitalize on the global UAM opportunity. Having been incubated for almost four years within EmbraerX, now is the right time to establish Eve as an independent company. As part of the company's initiative to accelerate the UAM revolution, EmbraerX has been part of the Uber Elevate Network since its inception in 2017.

### Combined research involving Volocopter opens way for multicopter use in emergency scenarios

In 2018 a feasibility study was launched by ADAC Luftrettung and sponsored by the ADAC foundation to examine if the rescue service system could be improved and future-proofed through the use of multicopters as a means of transport for emergency doctors, in cooperation with Volocopter, which is currently building the world's first sustainable and scalable urban air mobility business to bring affordable air taxi services to megacities worldwide. "We are proud to be contributing to the greater public good by applying Volocopter technology to air rescue missions. In the close cooperation with ADAC Luftrettung, it has become clear how profound the professional expertise in the field of air rescue and helicopter fleet operation is. At the same time, this collaboration shows how forward-looking and open to innovation the project participants are," says Florian Reuter, CEO of Volocopter. Whereas a traditional helicopter crew comprises one or two pilots, an emergency doctor and paramedics, the multicopter would have just a pilot and emergency doctor, though the pilot would undergo medical emergency training in order to play a supporting role to the emergency doctor. The multicopter has been identified as a means to satisfy the most urgent need in an emergency situation, the attendance of an emergency doctor. The role of the multicopter does not include patient evacuation – that would remain the role of the traditional helicopter. However, weight will be a critical issue with the multicopter as it will need to be equipped with medical equipment appropriate for emergency situations. The study also investigated the economics of deploying multicopters and identified a clear reduction in cost compared to a traditional helicopter and would require a far lower level of initial investment. Based on the research results and the state of technological advancements, a nationwide network of up to 250 multicopter bases could be created in Germany by 2050 according to the project managers' optimistic forecast.



ADAC Volocopter

Photo: Volocopter

## Camfil and CTT SYSTEMS partner to incorporate Ozone and VOC filtration in humidifiers



Camfil and CTT Systems enter partnership to incorporate ozone and VOC filtration in humidifiers  
Photo: Camfil

Camfil, a manufacturer of premium clean air solutions, has signed a Memorandum of Understanding (MOU) with CTT SYSTEMS (CTT), a leader of aircraft humidity control systems, to enter a partnership that opts to adapt Camfil's air filtration technology for aircraft and the aviation industry, primarily to be incorporated in CTT's humidifier products. The cooperation aims to explore innovative air filter applications that improve air quality in the aircraft cabin, where Camfil expertise and leading-edge air filtration solutions can be applied in cooperation with CTT's knowledge and footprint in the aviation industry. Primarily, CTT opts to incorporate air filtration in its humidifier products to further improve air quality for pilots, crew, and passengers. Thus, CTT can complement existing clean air solutions without adding additional maintenance or overhaul for airlines. The initial objective is to reduce ozone and/or volatile organic compounds (VOCs). By integrating filter technology in the pad module that is aligned with the service interval of the pad material, airlines can rip-and-replace the entire pad

module. CTT has a large installed population of humidifiers in the flight deck and crew rests, primarily on Boeing 787 and Airbus A350 aircraft. The pad-filters will be completely interchangeable with the current product line of humidifiers/pads.

## MRO & PRODUCTION NEWS

### Bombardier and Jetex join forces to establish fixed-base operator experience in Singapore

Bombardier and Jetex have joined forces to establish a fixed-base operator (FBO) experience in Singapore. Bombardier is in the midst of expanding capabilities and hangar space at its Singapore Service Centre at Seletar Aerospace Park to transform this facility into a high-capacity, one-stop-shop super center, offering customers a full gamut of services required throughout an aircraft's life. Part of this major expansion is the introduction of Jetex's FBO and ground handling systems to provide operators and passengers with seamless service from arrival to departure as part of Bombardier's commitment to offering an exceptional customer experience. Jetex's stellar reputation for international trip planning and ground support is recognized by international -fleet and single-aircraft operators alike. Singapore becomes Jetex's fourth destination in Asia-Pacific after Tokyo (Haneda and Narita) and Osaka.

### Wizz Air selects Airinmar for warranty management services

AAR subsidiary Airinmar, the global independent provider of component repair cycle management and aircraft warranty solutions, has signed a new services agreement with European low-fare carrier Wizz Air. Airinmar will provide a full suite of warranty management services covering airframe, engines, and components. The agreement covers the identification, claim and recovery of the multiple airframes, engine and component warranty entitlements provided by Airbus and its suppliers. These services will integrate with Wizz Air's current materials management activities and will focus on maximizing the recovery of Wizz Air's warranty

### STS Mod Center kicks off Thales Wi-Fi installation program in Melbourne, FL

STS Mod Center, a division of STS Aviation Group, kicks off a major aircraft connectivity project in Melbourne, Florida, that will call upon the team to install Thales Wi-Fi systems on more than 100 commercial aircraft over the next 12 months. "The first aircraft to be a part of this program, an A321, arrived a few days ago and installation work is already underway," said Mark Smith, President of STS Aviation Group. "In the coming months, the STS Mod Center team in Melbourne will install Thales Wi-Fi systems on more than 100 aircraft; aircraft that includes models from both Boeing and Airbus." It takes the STS Mod Center team about three days to complete the nose-to-tail installation of a Thales Wi-Fi system on narrow-body aircraft and about four-to-six days when working on wide-body aircraft.



Photo: STS Mod Center kicks off Thales Wi-Fi installation program

### FL Technics signs CAM services agreement with Wizz Air Abu Dhabi



Wizz Air aircraft at Abu Dhabi International Airport

Photo: FL Technics

FL Technics, a global provider of integrated aircraft maintenance, repair, and overhaul services, has signed a long-term contract to support international low-cost carrier Wizz Air Abu Dhabi with complete Continuing Airworthiness Management (CAM) services. FL Technics will perform continuous airworthiness management for Airbus

A320neo- and A320ceo-family aircraft and will provide full CAM services in accordance with the requirements of the General Civil Aviation Authority (GCAA) ensuring a proper control in the AMOS system. The scope of work is not limited to full CAM services. It will also cover other engineering services, which Wizz Air requires on a regular and ad hoc basis.



## MRO & PRODUCTION NEWS

entitlements and reducing the cost of aircraft maintenance.

### Sine Draco Aviation Technology receives AS9100 Rev. D and ISO 9001 certifications

Sine Draco Aviation Technology has received certification to the AS9100 Rev. D quality management standard at its North American headquarters in Bellevue, WA. The AS9100D approval also includes certification to the ISO9001:2015 standard. Sine Draco's AS9100 certification supports its plans for development, management, and execution of large-scale aviation projects, including aircraft design, modification and certification for passenger-to-freighter conversion and aircraft storage. Sine Draco recently launched development of an A321-200 passenger-to-freighter conversion with FAA approval anticipated in late 2021/early 2022.

## FINANCIAL NEWS

### Delta Air Lines posts September quarter net loss of US\$2.1 billion

Delta Air Lines has posted financial results for the September quarter 2020. Delta's adjusted operating revenue of US\$2.6 billion for the September quarter was down 79% versus the September 2019 quarter, as demand for air travel remains under significant pressure. Passenger revenues declined 83% on 63% lower capacity. Non-ticket revenue streams have performed relatively better than passenger revenues, with total loyalty revenues declining 60% and cargo declining 25%. Adjusted pre-tax loss of US\$2.6 billion excludes US\$4.0 billion of items directly related to the impact of COVID-19 and the company's response, including fleet-related restructuring charges and charges for voluntary separation and early retirement programs for Delta employees, which were partially offset by the benefit of the CARES Act grant recognized in the quarter. Delta posted net loss of US\$2.1 billion for the quarter. Delta ended the September quarter with US\$21.6 billion in liquidity. Cash used in operations during the quarter was US\$2.6 billion. Daily cash burn averaged US\$24 million for the quarter, with an average of US\$18 million for the month of September. At the end of the September quarter, the company had total debt and finance lease obligations of US\$34.9 billion with adjusted net debt of US\$17.0 billion, US\$6.5 billion higher than Dec. 31, 2019. In September, Delta completed its debt offering, raising US\$9.0 billion at a blended average rate of 4.75% secured by its SkyMiles loyalty program. In addition, the

### EngineStands24's recent purchase marks ambitious expansion plans

EngineStands24, a subsidiary of the global provider of Total Technical Care for aircraft operators and lessors, Magnetic MRO, has announced its entering into the wide-body market with the purchase of PW4000-94 engine stands for Boeing B747 and B767 aircraft, manufactured in the U.S.A. by AGSE, as well as Trent 700 engine stands for the Airbus A330, manufactured in the U.S.A. by HYDRO Systems KG.

The recently acquired engine stands are the first in its portfolio dedicated to wide-body aircraft. According to EngineStands24, the demand for such engine stands has been increasing for a while now and with the recent pandemic following the growing number of B747 and B767 aircraft being converted for cargo operations, such demand has spiked even more.



Engine stand

Photo: EngineStands24

### HAECO Xiamen completes first Airbus A350 C-Check



Photo: HAECO Xiamen completes first A350 C-Check

HAECO Xiamen, a member of the HAECO Group, has completed its first Airbus A350 C-Check for Cathay Pacific Airways. With around 370 Airbus A350 aircraft now in operation, the aircraft type is well received by airlines from around the world. HAECO Xiamen is dedicated to expanding its technical capabilities so it can meet the growing demand for airframe services support for new generation aircraft in the aviation industry. HAECO Xiamen currently holds approval from multiple authorities around the world for all major and new-generation commercial aircraft types, including A320neo and Boeing 787 aircraft.



## FINANCIAL NEWS

company borrowed US\$1.5 billion at a blended yield of 4.4% in connection with the issuance of tax-exempt bonds, that will be used to finance the LaGuardia airport project. The company's total debt had a weighted average interest rate of 4.3% at Sept. 30, 2020.

### Fly Leasing closes new US\$180 million term loan

Fly Leasing (FLY), a global leader in aircraft leasing, has closed a new US\$180 million term loan (the 2020 Term Loan). The interest rate on the five-year term loan is LIBOR plus 6.00% with a 1.00% LIBOR floor. The financing was issued at an original issue discount of 4.5%. The 2020 Term Loan will be secured by 11 narrow-body aircraft owned by FLY and its subsidiaries, four of which are unencumbered and seven of which are currently financed in FLY's 2012 Term Loan. The proceeds will be used for general corporate purposes.

### Rolls-Royce looks to double up on October 1 bond offering to now raise £2 billion

On October 1, Rolls-Royce Holdings (Rolls-Royce) announced its intention to raise at least £1 billion through a bond offering as part of its strategy to raise £5 billion in a recapitalization package to support its long-term strategy. However, unanticipated strong demand for the investor Notes has seen the company double the size of the offering, which will now comprise three tranches in three separate currencies issued by Rolls-Royce and guaranteed by the Company.

The Bond Offering will comprise: US\$1,000 million aggregate principal amount of 5.750% Notes due 2027; €750 million aggregate principal amount of 4.625% Notes due 2026; and €545 million aggregate principal amount of 5.750% Notes due 2027. The recapitalization package also includes an approximately £2 billion fully underwritten rights issue (the "Rights Issue") and commitments for a new two-year term loan facility of £1 billion. The combination of the proceeds from the Notes, the Rights Issue and the commitments for the new £1 billion term loan facility is expected to provide the company with gross proceeds of approximately £5 billion. According to Rolls-Royce, it has "also received support in principle from UK Export Finance for an extension of its 80% guarantee to support a potential increase of up to £1 billion to our existing £2 billion five-year term loan facility. However, given the increase in the quantum of Notes being issued, we do not currently plan to progress this potential extension to our loan facility, while still having the option to do so at a later time if required." The Bond Offering is

### Embraer delivers six A-29 Super Tucano to The Philippine Air Force



A-29 Super Tucano for The Philippine Air Force

Photo: Embraer

All six Super Tucano aircraft ordered by The Philippine Air Force (PAF) were officially handed over to the Air Force on October 14, 2020. The aircraft will be deployed for close air support, light attack, surveillance, air-to-air interception, counter-insurgency missions, advanced training and are part of PAF's ongoing modernization plan. These aircraft will be operated and maintained by the 15th Strike Wing, the PAF's end-user. In November 2017, a firm order of six A-29 Super Tucano light attack and advanced training aircraft for the Philippine Air Force (PAF) was made after a comprehensive public bidding process.



Frankfurt Airport

Photo: Frankfurt Airport

In September 2020, **Frankfurt Airport** (FRA) served some 1.1 million passengers – an 82.9% decline compared to the same month last year. Cumulative traffic at FRA during the January-to-September 2020 period fell by 70.2%. The low passenger demand resulted from persisting travel restrictions and the uncertainties for travel planning in the wake of the Covid-19 pandemic. Aircraft movements at Frankfurt Airport decreased by 63.7% year-on-year to 16,940 takeoffs and landings in September 2020. Accumulated maximum takeoff weights (MTOWs) contracted by 61.7% to about 1.1 million metric tons. Cargo throughput, comprising airfreight and airmail, dipped by only 5.0% year-on-year to 165,967 metric tons – despite the lack of capacity for belly freight (transported on passenger aircraft). Fraport Group's airports worldwide also continued to be affected by the Covid-19 pandemic, albeit to varying extent. While some airports in Fraport's international portfolio benefited from a slight rebound in holiday traffic, others were still subject to comprehensive travel restrictions during the reporting month. **Ljubljana Airport** (LJU) in Slovenia welcomed 21,686 passengers in September 2020, down 87.4% year-on-year. In Brazil, the **airports of Fortaleza** (FOR) and **Porto Alegre** (POA) registered a combined traffic drop of 68.0% to 402,427 passengers. At Peru's **Lima Airport** (LIM), traffic plunged by 92.1% to 158,786 passengers because of widespread restrictions on international air traffic. Fraport's 14 **Greek regional airports** served some 1.7 million passengers in September 2020, representing a 61.3% decline compared to the same month last year. The Bulgarian Twin Star airports of **Burgas** (BOJ) and **Varna** (VAR) saw combined traffic slide by 75.6% to 171,690 passengers. **Antalya Airport** (AYT) in Turkey received about 2.3 million passengers – a decrease of 53.4%. Traffic at **Pulkovo Airport** (LED) in St. Petersburg, Russia, shrank by 29.1 percent to around 1.4 million passengers. With some 3.6 million passengers registered in September 2020, China's **Xi'an Airport** (XIY) maintained its recovery path – and further reduced the rate of decline to just 9.5% year-on-year.

## FINANCIAL NEWS

expected to close on October 21, 2020 and the proceeds will be escrowed and will be available to Rolls-Royce upon successful completion of its Rights Issue. (£1.00 = €1.10 or pound dollar US\$1.29 at time of publication.)

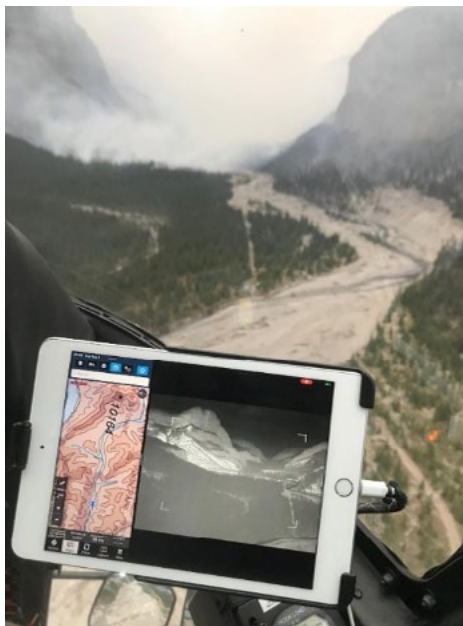
## MILITARY AND DEFENCE

### MD Helicopters awarded two Army contracting Command MD 530F contracts

MD Helicopters (MDHI) has announced two independent contract awards from Army Contracting Command-Redstone to support allied operations of the MD 530F Cayuse Warrior helicopter. The first contract, worth US\$6.1 million, requires MDHI to retrofit 18 legacy MD 530F helicopters operated by the Afghanistan Air Force with ballistic-tolerant crashworthy fuel systems (CWFS). Jointly developed with Robertson Fuel Systems, the 59-gallon MD 530F CWFS delivers unmatched safety and survivability. The system features ballistically self-sealing fuel cells, crash-worthy bladders compliant to MIL-DTL-27422, gravity-fed auxiliary fuel transfer, compatibility with Robertson's 38-gallon Little Bird Auxiliary Tank System (LBATS), and combat proven performance. Under the contract, MDHI will perform the retrofit of the CWFS for each helicopter in Afghanistan. The second contract, worth US\$6.4 million, modifies MDHI's original 2018 indefinite-delivery/indefinite-quantity production contract to supply six aircraft to the Lebanon Air Force. The modification adds instructor pilot flight training, maintenance and armament training for 12 pilots and 16 maintenance technicians from the Lebanon Air Force. Training will take place at MDHI's Flight Training Academy in Mesa, Ariz., which provides military-specific training to customers operating MDHI helicopters.

## INFORMATION TECHNOLOGY

Software and technology company **Sabre Corporation** and **American Airlines** have renewed their long-term, worldwide distribution agreement. Under the renewed agreement, Sabre will continue to distribute American Airlines flights and services through the Sabre travel marketplace, ensuring that Sabre connected-agencies will continue to have access to the same American Airlines content, including branded fares, ancillary products and services. "It's been a challenging year for the travel industry, and it is critical to us that we support our agency community well," said Alison Taylor, chief customer officer of American Airlines. "Sabre remains important to American, as we



The Airbus Helicopter AS350 with the Max-Viz 1400 allows pilots to see more precisely in adverse conditions  
Photo: Astronics Corporation

**Astronics Corporation** has announced that the United States and Canada have approved Astronics' Max-Viz 1400 and 1200 Enhanced Vision Systems (EVS) for **Airbus** Helicopter's AS350 Écureuil. In cooperation with AVIO dg in Calgary, Canada, Astronics obtained the Supplemental Type Certificates for its Max Viz 1400 and 1200 EVS from the U.S. Federal Aviation Administration (FAA) and the Transport Canada Civil Aviation (TCCA) for approved models which are the Airbus Écureuil AS350B, AS350B1, AS350B2, AS350B3, AS350BA, and AS350BD. Astronics' Max-Viz 1200 and 1400 systems are lightweight, solid-state, low power, and feature an uncooled thermal camera. The sensor image displays on any cockpit equipment that accepts NTSC or PAL/Analog RS-170 video signals, including MFDs (Multi-Function Displays), PFDs (Primary Flight Displays) or on standalone displays depending on aircraft configurations. Astronics' Max-Viz EVS provides improved safety

through enhanced vision, enabling pilots to see more precisely in adverse weather conditions, such as haze, smoke, smog, and light fog, even on the darkest night. In addition, pilots can detect and avoid clouds for a smoother ride. While landing, pilots using the Max-Viz EVS can identify the runway and view the terrain clearly to avoid wildlife and unlit obstructions.



L3Harris flight training device internal

Photo: BAA Training

**L3Harris Technologies** has been selected by **BAA Training** to supply eight new flight training devices (FTDs) to further support BAA Training's expansion program. L3Harris will install the new FTDs at BAA Training's locations across Europe and Asia from 2021. The agreement builds on the purchase of full-flight simulators (FFSs) announced in March 2020. The eight FTDs are for a combination of A320, 737 MAX and 737 NG aircraft. All devices will be certified to European Union Aviation Safety Agency (EASA) Level 2 and provide a realistic training environment incorporating an enclosed cockpit, visual system and aircraft-specific controls. The devices will support BAA Training with upcoming EASA regulatory changes, which allow for a better mix of training time to be recognized across the device suite. The devices will also feature L3Harris' latest instructor station that has been redesigned to provide an instructor centric experience, supporting effective training from the start of each session.



## INFORMATION TECHNOLOGY

work together with our mutual agency partners to facilitate bookings.” American Airlines is a long-standing Sabre customer employing Sabre’s travel marketplace as well its SabreSonic reservations system, and multiple other airline IT solutions. With a partnership that extends over 20 years, Sabre and American are committed to delivering relevant and meaningful content that helps connect travelers with experiences that matter in their lives.

## OTHER NEWS

**Finnair** is in the middle of the largest crisis in aviation’s history and is facing a challenging financial situation due to the impacts of the COVID-19 pandemic. To emerge from the crisis the airline has launched a comprehensive adjustment and cost-savings program. The program includes, among many other actions, jointly agreed decreases in personnel costs for several personnel groups. Top management remuneration does not include variable salary elements from 2020-2022. The rebuild of Finnair will take years, and will require hard work and dedication. Securing the company’s future demands a long-term contribution from all Finnair employees. Finnair has prepared a long-term incentive program for those personnel groups with whom it reaches agreements on permanent cost savings that support Finnair’s recovery. Finnair has now launched this incentive program, which starts during this year and will end in the third quarter of 2023. “Finnair is facing an extremely difficult situation due to the COVID-19 pandemic. The company must make painful decisions to emerge from the ongoing crisis which is reshaping our industry. Getting through this phase requires renewal so that Finnair can be competitive in the years to come,” said Jouko Karvinen, Chairman of the Board, Finnair. “Finnair has launched an incentive program for personnel and management, aiming at in due course rewarding the Finnair team for their contributions to Finnair’s future. The targets and key performance indicators we have set for the program are ambitious and in line with the company’s best interests. They are also aligned with the interests of the company’s shareholders.” The program for personnel will result in an incentive being paid to participating groups if Finnair succeeds in rebuilding its business over the coming three years in line with the set performance indicators and targets. At the maximum, the incentive pay-out can amount to approximately two months of salary, payable in the third quarter of 2023. The key performance indicators of the new three-year incentive plan for the Finnair Executive Board are the same as those of the personnel

The **Iraqi Civil Aviation Authority** (ICAA) has entrusted **National Aviation Services** (NAS), an aviation services provider across the Middle East, Africa and South Asia, to upgrade and operate passenger-handling services and processes at Baghdad International Airport. NAS will extend its expertise and resources at the Babylon and Samara passenger terminals as well as the international transit halls. NAS will also be responsible for the refurbishment and upgrade of infrastructure and facilities, installation



NAS will extend its expertise and resources at the Babylon and Samara passenger terminals as well as the international transit halls  
Photo: NAS

of new equipment, and implementation of all required technology solutions at the two terminals. The two terminals serve all major airlines flying in and out of the country, making NAS the exclusive passenger-handling services provider for all international flights. Baghdad International Airport re-opened in July 2020, following a four-month suspension of flights due to the COVID-19 global pandemic. The upgraded infrastructure, facilities and technology will contribute heavily to these airline operations including automated passenger departure systems, enhanced safety and security, productivity and on time performance (OTP).



The silent tractors will each cut CO2 emissions by up to 23 tons while improving ramp safety and flight punctuality  
Photo: Iberia

**Iberia Airport Services** handling unit has deployed new “green pushback” tractors to move aircraft in the Madrid and Barcelona airports. The emission-free electric vehicles are operated by remote control. In late October, Iberia Airport Services will have eight of the new vehicles in Madrid and Barcelona, which are nearly silent, and each one will effectively cut annual CO2 emissions by some 23 tons. They operate more precisely than their predecessors for greater safety on airport ramps and greater punctuality of flights by all client airlines at the two airports. The new “Mototok Spacer 8600” vehicles are powered by 80V batteries which enable them to move as many as 28 narrow-body aircraft between charges. This category includes all the Airbus A319s, A320s, and A321s in the short- and medium-range fleets of both Iberia and Vueling. In the framework of the Iberia Airport Services’ Go Up! transformation program, the handling operator has replaced 80% of its ground vehicle fleet with more environmentally sustainable equipment, while also using more energy from renewable sources.

## OTHER NEWS

incentive program. Incentives are paid only if Finnair achieves the common targets. Finnair has also issued a stock exchange release with the details of the Executive Board incentive plan. Finnair has reserved the possibility to offer the incentive program to personnel groups with whom agreements on permanent cost savings have not yet been reached. If such agreements are reached shortly, these personnel groups will take part in the new incentive programme under the same conditions as other participants.

**Munich Airport International (MAI)**, the German-based airport management and consulting firm, and **EMCO**, a Honduran construction company, have been awarded a concession to develop and operate the **El Salvador Airport Cargo Terminal** for a period of 40 years. The decision was announced on October 9, by the **El Salvador Government**, through the **Comisión Ejecutiva Portuaria Autónoma (CEPA)**. As partner to EMCO, MAI will provide management and advisory services for the cargo terminal during all stages, including asset transition and takeover, operations management, service level and standard procedures setup and implementation, cargo business development, cargo related trainings as well as expertise across various areas of airport development and management to maximize productivity and efficiency levels. With the announcement of CEPA, the project is now entering into a new phase and EMCO and MAI are actively working and mobilizing the teams for a successful future of El Salvador's Air Cargo Development. "We are honored to be part of this exciting project with our partner company EMCO. We will work closely with all stakeholders to implement our best practices to develop and enhance the cargo business and its positive impact to the country of El Salvador," stated Dr. Ralf Gaffal, Managing Director at MAI.

## INDUSTRY PEOPLE



Greg Azzara

• BBAM, a leading provider of asset origination and management services in the aircraft leasing industry, has reported the retirement of Chief Operating Officer **Greg Azzara**, and the appointment of Vincent Cannon to the role of General Counsel and Chief Operating Officer. Azzara will remain with BBAM as an advisor to the

company's Executive Committee through March 31, 2021, to ensure a smooth transition. Cannon is currently Senior Vice President, Corporate Legal, a position he has held since joining BBAM in 2014. Prior to joining BBAM, he practiced law at Davis Polk & Wardwell LLP.

• **Alex Cruz**, British Airways Chairman and Chief Executive, is to step down as Chief Executive and remain the airline's non-executive Chairman. **Sean Doyle**, Aer Lingus Chairman and Chief Executive, will become the new Chief Executive of British Airways and take over as Chairman after a transition period. **Fernando Candela**, LEVEL Chief Executive, is joining the Group's management committee in a new role of Chief Transformation Officer. At Aer Lingus, **Donal Moriarty**, currently the airline's Chief Corporate Affairs Officer, will become interim Chief Executive. A permanent appointment will be announced in due course.



Andy Hubbard

• Air Navigation Solutions (ANSL), a U.K. air traffic management provider, has appointed **Andy Hubbard** as its Technical Director. As Technical Director at ANSL he will be responsible for the strategic development of ANSL's engineering and technology functions and capabilities. He will also oversee the technical and engineering aspects of projects and operations at both Gatwick and Edinburgh Airports. Andy joins ANSL from SITA FOR AIRCRAFT where he was Head of Cockpit Communications and ATC Portfolio.



Ian Foster

Bii.aero, a provider of aircraft parts, repairs, and services for the commercial, governmental/military and rotary aviation sector, has appointed **Ian Foster** as MRO Director. Foster will focus his significant global network of closely audited repair vendors and knowledge of contracted programs, to broaden Bii's reach and compete effectively in a highly cost-sensitive marketplace.



Alexis Dufermont

• APOC Aviation, the innovative leasing, trading, aircraft component and part-out specialist, has appointed industry professional **Alexis Dufermont**, as Director of Business Development. He will be responsible for expanding and diversifying APOC's global customer network and the development of new routes to market for the organization's rapidly growing A320 and B737 inventory of parts. In his previous position as Sales Director – Contract Services at AJW Aviation, Dufermont was accustomed to developing integrated component solutions for a wide range of customers of all sizes and global locations, and he sees this a core strength.

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publications

AviTrader Publications Corp.  
Suite 305, South Tower  
5811 Cooney Road  
Richmond, BC  
Canada V6X 3M1

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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	Q3/2020	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
A319-100	DVB Bank	V2522-A5	2375	2005	Q3/2020	Sale / Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
A319-100	ALTAVAIR	CFM 56-5B6/P		1999	Oct 2020	Sale / Lease	Clive Bowen	clive.bowen@altavair.com	+44 2075351602
A319-100	BBAM	CFM56-5B5/P	2129	2004	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 415 486 6100
A319-100	BBAM	CFM56-5B5	2249	2004	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
A319-100	BBAM	CFM56-5B5/P	1362	2000	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
A320-200	BBAM	V2527-A5	2587	2005	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
A320-200	ORIX Aviation	CFM56-5B4/P	2584	2005	Q1/2021	Sale / Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A320-200	DVB Bank	V2527-A5	3734	2009	Q3/2020	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
A320-200	DVB Bank	V2527-A5	2164	2004	Q3/2020	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
A320-200	GA Telesis	V2527-A5	475	1994	Q4/2020	Sale / Lease	Mauro Francazi	aircraft@gatelesis.com	+1-954-676-3111
A320-200	GA Telesis	V2527-A5	500	1994	Q4/2020	Sale / Lease	Mauro Francazi	aircraft@gatelesis.com	+1-954-676-3111
A320-200	GA Telesis	V2527-A5	503	1994	Q4/2020	Sale / Lease	Mauro Francazi	aircraft@gatelesis.com	+1-954-676-3111
A320-214	DVB Bank	CFM56-584/3	3767	2009	Q1/2021	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
A320-230	DVB Bank	V2527-A5	4552	2010	Q3/2020	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
A320-230	DVB Bank	V2527-A5	2395	2005	Q3/2020	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
A330-200	ORIX Aviation	Trent 772B-60	1306	2012	Now	Sale / Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A330-200	DVB Bank	CF6-80E	814	2007	Q4/2020	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
A330-200	GA Telesis	CF6-80E1A4	510	2002	Now	Sale	Mauro Francazi	aircraft@gatelesis.com	+1-954-676-3111
A330-200 (2x)	ALTAVAIR	CF6-80E1A4B	various	2008	Now	Sale / Lease	Clive Bowen	clive.bowen@altavair.com	+44 2075351602
A330-200 (16x)	ALTAVAIR	Trent 772B-60/16	various	05-14	Now	Sale / Lease	Clive Bowen	clive.bowen@altavair.com	+44 2075351602
A330-200	Doric	Trent 772B-60/16	1407	2013	Q1/2021	Sale / Lease	Maurick Groeneveld	maurick.groeneveld@doric.com	+49 (0)69 247559931
A330-200	Presidio Aircraft Leasing	CF6-80E1A3	871	2007	Now	Dry / ACMI	Stephen Haire	shaire@aelfinc.com	+1 312 772 1613
A330-200	Presidio Aircraft Leasing	CF6-80E1A3	472	2002	Now	ACMI	Stephen Haire	shaire@aelfinc.com	+1 3127721613
A330-200	Presidio Aircraft Leasing	CF6-80E1A3	700	2005	Now	Dry / ACMI	Stephen Haire	shaire@aelfinc.com	+1 3127721613
A330-223	Presidio Aircraft Leasing	PW4168A	970	2008	Now	Dry / ACMI	Stephen Haire	shaire@aelfinc.com	+1 3127721613
A330-300 (6x)	ALTAVAIR	Trent 772-60/19	various	09-11	Now	Sale / Lease	Clive Bowen	clive.bowen@altavair.com	+44 2075351602
A330-300	BBAM	Trent 772B-60	1562	2014	Sep 2020	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
A330-300	BBAM	Trent 772B-60	1609	2015	Mar 2021	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
A330-300	BBAM	PW4168A	403	2003	Sep 2020	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
A330-300	DVB Bank	Trent 772B-6	1146	2010	Q4/2020	Sale / Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
B737-700	BBAM	CFM56-7B22	38125	2011	Mar 2021	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B737-700	BBAM	CFM56-7B22	38126	2011	Mar 2021	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B737-700	BBAM	CFM56-7B22	38127	2011	Mar 2021	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B737-700	BBAM	CFM56-7B20	32414	2002	Feb 2021	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B737-700	BBAM	CFM56-7B20/3	35150	2009	Dec 2020	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B737-800	DVB Bank	CFM56-7B27	30654	2003	Q1/2021	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
B737-800	DVB Bank	CFM56-7B26E	40880	2012	Q1/2021	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
B737-800	DVB Bank	CFM56-7B26	30294		Q4/2020	Sale	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
B737-800	ORIX Aviation	CFM56-7B26E	38034	2012	Q4/2020	Sale / Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
B737-800	ORIX Aviation	CFM56-7B26	34153	2005	Q1/2021	Sale / Lease	Oisin 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	Oct 2020	Sale / Lease	Clive Bowen	clive.bowen@altavair.com	+44 2075351602
B737-800	BBAM	CFM56-7B26	28595	1999	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B737-800SF	GA Telesis		32903	2002	Q4/2020	Sale / Lease	Mauro Francazi	aircraft@gatelesis.com	+1-954-676-3111
B737-900	BBAM	CFM56-7B26/3	34953	2007	Dec 2020	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B777-300ER	Doric	GE90-115BL1	35592	2009	Q2/2021	Sale / Lease	Maurick Groeneveld	maurick.groeneveld@doric.com	+49 (0)69 247559931
B777-300ER	Doric	GE90-115BL2	36158	2009	Q2/2021	Sale / Lease	Maurick Groeneveld	maurick.groeneveld@doric.com	+49 (0)69 247559931
B777-300ER	DVB Bank	GE90-115B	37705	2009	Q1/2021	Sale / Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449

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# THE AIRCRAFT AND ENGINE MARKETPLACE

## Regional Jet / Turboprop Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
ATR72-600	AELIS Group	PW127N	1172	2014	Now	Sale	Mirka Tomasovicova	contact@aelisgroup.com	+42 1911973118
ATR72-600	AELIS Group	PW127N	1196	2014	Now	Sale	Mirka Tomasovicova	contact@aelisgroup.com	+42 1911973118
ATR72-600	AELIS Group	PW127N	1199	2014	Now	Sale	Mirka Tomasovicova	contact@aelisgroup.com	+42 1911973118
ATR72-600	AELIS Group	PW127N	1231	2015	Now	Sale	Mirka Tomasovicova	contact@aelisgroup.com	+42 1911973118
CRJ-200LR	Regional One	CF34-3B1	8062	2006	Now	Sale / Lease	Andre Boudreaux	Aboudreaux@regionalone.com	-1(305) 759-0670 Ext. 164
CRJ-700	Regional One	CF34-8C5B1	10205	2005	Now	Sale / Lease	Andre Boudreaux	Aboudreaux@regionalone.com	-1(305) 759-0670 Ext. 164
D0328 Jet	Regional One	PW306B	3185	2001	Now	Sale / Lease	Andre Boudreaux	Aboudreaux@regionalone.com	-1(305) 759-0670 Ext. 164
ERJ170-100LR	Regional One	CF34-8E5	17000123	2006	Now	Sale / Lease	Andre Boudreaux	Aboudreaux@regionalone.com	-1(305) 759-0670 Ext. 164
ERJ-145LR	Regional One	AE3007A1	145304	2001	Now	Sale / Lease	Andre Boudreaux	Aboudreaux@regionalone.com	-1(305) 759-0670 Ext. 164
ERJ-145LR	Regional One	AE3007A1	145331	2000	Now	Sale / Lease	Andre Boudreaux	Aboudreaux@regionalone.com	-1(305) 759-0670 Ext. 164

## Commercial Engines

Multiple Types	Sale / Lease	Company	Contact	Email	Phone
Multiple Engines GE / CFM / RB211	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
<b>AE3007 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(3) AE3007A1P	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 786-623-3936
<b>CF34 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
CF34-8E5	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
CF34-10E	Now - Lease				
CF34-8C	Now - Lease				
CF34-3B1	Now - Sale				
CF34-3A	Now - Sale / Lease				
(2) CF34-8C5B1	Now - Sale / Lease	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) CF34-3B1	Now - Sale / Lease				
(2) CF34-10E6	Now - Lease	DASI	Joe Hutchings	joe.hutchings@dasi.com	+1 954-478-7195
(1) CF34-3B1 (dual release tag)	Now - Sale	FL Technics	Modestas Valiusevicius	m.valiusevicius@fltechnics.com	+370 6 54 96179
(3) CF34-10E	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) CF34-8E5A1	Now - Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204x202
(1) CF34-8C5A1	Now - Lease				
(2) CF34-10E6	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
CF34-8E(s)	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1 (513) 782-4272
<b>CF6 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) CF6-80C2B7F	Now - Sale / Lease	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(1) CF6-80E1A3	Now - Sale / Lease				
(1) CF6-80E1A4B	Now - Sale / Lease				
(3) CF6-80E1A4B	Now - Sale/Lease/Exch.	ALTAVAIR	Clive Bowen	clive.bowen@altavair.com	+44 2075351602
(2) CF6-80E1	Now - Lease	DVB Bank	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
(1) CF6-80E1A4B	Oct 2020 - Sale / Lease	Castlelake	Stuart MacGregor	Stuart.macgregor@castlelake.com	+44 207 190 6138
(2) CF6-80E1A3	Now - Lease	Presidio Aircraft Leasing	Stephen Haire	shaire@aelfinc.com	+1 312 772 1613
(1) CF6-80C2B1F (full QEC)	Now - Lease	FTAI Aviation LLC	Tom McFarland	tmcfarland@ftaiair.com	+1 786 785 0787
<b>CFM Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(2) CFM56-5B (all thrust levels)	Now - Sale / Lease	Conrail Aviation	Kevin Milligan	kevin@conrail.com	+1 949-933-0797
(2) CFM56-7B (all thrust levels)					
(1) CFM56-5C4	Now - Lease	Presidio Aircraft Leasing	Stephen Haire	shaire@aelfinc.com	+1 312 772 1613
(1) CFM56-5B4/P (full QEC)	Now - Lease	FTAI Aviation LLC	Tom McFarland	tmcfarland@ftaiair.com	+1 786 785 0787
(1) CFM56-5B5/P	Now - Lease				
(1) CFM56-5B8/P	Now - Lease				
(2) CFM56-7B26 (full QEC)	Now - Lease				
(1) CFM56-7B24	Now - Lease				
(1) CFM56-7B22 (with QEC)	Now - Lease				
(2) CFM56-7B24/3	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(2) CFM56-5B4/3	Now - Lease				
(1) CFM56-5C4/P	Now - Lease				
(1) CFM56-7B224/E	Now - Lease				
(1) CFM56-5C	Now - Lease				
(1) CFM56-7B27/B3	Now - Lease				



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# THE AIRCRAFT AND ENGINE MARKETPLACE

## Commercial Engines (cont.)

(2) CFM56-5A	Now - Sale	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
(1) CFM56-5B3/3 PIP	Now - Lease	Rolls-Royce & Partners Finance	RRPF Marketing	RRPFMarketing@rolls-royce.com	+44 7528975877
(4) CFM56-7B26	Now - Sale / Lease	ALTAVAIR	Clive Bowen	clive.bowen@altavair.com	+44 2075351602
(2) CFM56-5B6/P	Now - Sale / Lease				
(2) CFM56-7B26	Now - Sale / Lease	BBAM	Steve Zissis	info@bbam.com	+1 787 665 7039
(5) CFM56-5B5/P	Now - Sale / Lease				
(2) CFM56-7B22	Now - Lease	DVB Bank	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
(multiple) CFM56-5B	Now - Sale / Lease	CFM Materials	Jimmy Hill	jimmy.hill@cfmmaterials.com	+1 469-628-3756
(multiple) CFM56-7B	Now - Sale / Lease				
(2) CFM56-7B26/E	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CFM56-7B24/E	Now - Lease				
(1) CFM56-5B3/3	Now - Lease				
(1) CFM56-5B4/3	Now - Lease				
(1) CFM56-5B2/P	Now - Sale / Lease	Castlake	Stuart MacGregor	Stuart.macgregor@castlake.com	+44 207 190 6138
(1) CFM56-5B4/P	Now - Sale / Lease				
(1) CFM56-7B22	Now - Sale / Lease	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(1) CFM56-7B26	Now - Sale / Lease				
(1) CFM56-5B4/P	Now - Sale / Lease				
(2) CFM56-7B26/27	Now - Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(2) CFM56-5B6/P	Now - Lease				
(1) CFM56-5B4/P	Now - Lease				
<b>JT8D and JT9D Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) JT8D-219	Now - Sale	AZURE RESOURCES INC.	Jeff Young	jeff@azureres.com	1-954-249-7935
<b>GE90 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) GE90-115B	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(2) GE90-115BL1	Now - Sale/Lease/Exch.	ALTAVAIR	Clive Bowen	clive.bowen@altavair.com	+44 2075351602
(1) GE90-115BL (Propulsor)	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
<b>LEAP Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) LEAP-1B28	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(2) LEAP-1A33	Now - Lease				
(1) LEAP-1A32	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) LEAP-1A26	Now - Lease				
<b>PW 4000 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(2) PW4168A	Now - Lease	Presidio Aircraft Leasing	Stephen Haire	shaire@aelfinc.com	+1 312 772 1613
<b>PW Small Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(3) PW121	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) PW123B/E	Now - Sale / Lease				
(3) PW127E/F/M	Now - Sale / Lease				
(1) PW150A	Now - Sale / Lease				
(1) PW123	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	leasing@willislease.com	+1 (561) 349-8950
(3) PW150A	Now - Sale/Lease/Exch.				
(3) PW127M	Now - Sale/Lease/Exch.				
PW119B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
PW119B	Now - Lease				
PW120A	Now - Lease				
PW121 (ATR)	Now - Lease				
PW124B	Now - Lease				
PW123B	Now - Lease				
PW125B	Now - Lease				
PW127F	Now - Lease				
PW150A	Now - Lease				
PW127M	Now - Lease				
PW150A RGB	Now - Lease				
(1) PW120A	Now - Sale / Lease	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) PW120	Now - Sale/Lease/Exch.				
(1) PW123E	Now - Sale/Lease/Exch.				
(4) PW126	Now - Sale/Lease/Exch.				
(1) PW121	Now - Sale/Lease/Exch.				

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# THE AIRCRAFT AND ENGINE MARKETPLACE

## Commercial Engines (cont.)

PW Small Engines	Sale / Lease	Company	Contact	Email	Phone
(2) PW123	Now - Sale	Castlelake	Stuart MacGregor	Stuart.macgregor@castlelake.com	+44 207 190 6138
(1) PW120 / PW121	Now - Sale / Lease	Royal Aero	Calum MacLeod	calum@royalaero.com	+49 8025 993610
RB211 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) RB211-535E4	Sep 20 - Sale / Lease	Castlelake	Stuart MacGregor	Stuart.macgregor@castlelake.com	+44 207 190 6138
Trent Engines	Sale / Lease	Company	Contact	Email	Phone
(2) Trent 772B-60	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	RRPF Marketing	RRPFMarketing@rolls-royce.com	+44 7528975877
(1) Trent-556	Now - Sale/Lease/Exch.				
(1) Trent XWB-84k	Now - Lease				
(8) TRENT 772-60/16	Now - Sale / Lease	ALTAVAIR	Clive Bowen	clive.bowen@altavair.com	+44 2075351602
(1) Trent772B-60	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) Trent 892B-17	Now - Sale	Centaurus Services/MASB	Paul Bithavas	paul.bithavas@centaurus.services	+61 408 389 241
(1) Trent 892B-17	Now - Sale / Exchange				
V2500 Engines	Sale / Lease	Company	Contact	Email	Phone
(2) V2527-A5	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	RRPF Marketing	RRPFMarketing@rolls-royce.com	+44 7528975877
(2) V2533-A5	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) V2530-A5	Now - Lease				
(2) V2527-A5	Now - Lease				
(1) V2527E-A5 (full QEC)	Now - Lease	FTAI Aviation LLC	Tom McFarland	tmcfarland@ftaiair.com	+1 786 785 0787
(1) V2527-A5	Now - Lease				
(2) V2522-A5	Now - Lease	DVB Bank	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
(2) V2527-A5	Now - Lease				
(2) V2527-A5	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204
(3) V2533-A5	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) V2533-A5	Now - Sale / Lease	Castlelake	Stuart MacGregor	Stuart.macgregor@castlelake.com	+44 207 190 6138
(1) V2527-A5	Now - Sale / Lease	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111

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

Description		Company	Contact	Email	Phone
(1) GTC331-500B	Now - Sale / Exchange	Centaurus Services/MASB	Paul Bithavas	paul.bithavas@centaurus.services	+61 408 389 241
Trent 892B-17 Modules					
(2) GTC331-200ER, (2) GTC331-9A,	Now - Sale	Setna IO	David Chaimovitz	david@setnaio.com	+1-312-549-4459
(1) GTC331-9B					
(1) A321 Enhanced Landing Gear 2020 OH					
Neutral CFM56-7B QEC Kit	Now - Sale	CFM Materials	Michael Arellano	Michael.Arellano@cfmmaterials.com	+1-214-988-6676
Landing gear shipsets	Now - Sale	GA Telesis	Danielle Rodon	landinggearsales@gatelesis.com	+1 954 865 9314
737-800, 777, A320, A330					
767-300ER 413K, 737-300 LANDING GEAR	Now - Sale/Lease/Exch.	AZURE RESOURCES INC.	Jeff Young	jeff@azureres.com	1-954-249-7935
GTC85-98DHF APU	Now - Sale/Lease/Exch.				
A320 Nose Landing Gear	Now - Sale/Lease/Exch.				
CFM56-3 LPT MODULE, REPAIRED	Now - Sale/Lease/Exch.				
CFM56-3 ENGINE STAND	Now - Lease				
(1) GTC336-150RJ, (2) GTC336-100M,	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) RE220RJ, (1) PW126 RGB, (1) PW901A					
(1) APS1000-C12, (1) APS1000-C3					
GTC331-9A (2), GTC331-9B(2)	Now - Lease	REVIMA APU	Olivier Hy	olivier.hy@revima-apu.com	+33(0)235563515
GTC331-200, GTC331-250	Now - Lease				
APS500C14(3), APS1000C12(2), APS2000	Now - Lease				
APS2300, APS3200(2), APS5000(2)	Now - Lease				
PW901A(4), PW901C(2)	Now - Sale / Lease				
TSCP700-4E	Now - Sale				
(1) PW901A APU	Now - Sale	Royal Aero	Gary MacLeod	gary@royalaero.com	+44 (0)141 389 3014
Neutral V2500-A5 QEC Kits (2) 745K9001-64	Now - Sale	ASI Aero	Dean Morgan	deanm@asiaero.net	+1 561-771-4253
(1) APU T-62T-40C	Now - Sale	Castlelake	Stuart MacGregor	Stuart.macgregor@castlelake.com	+44 207 190 6138
(1) GTC331-9B	Now - Sale / Lease	DASI	Chris Glascock	Chris.Glascock@dasi.com	+1 954-801-3592
(2) GTC331-9A, (1) GTC331-9B,		GA Telesis	John Wales	apu@gatelesis.com	+1-417-622-7215
(1) GTC331-200ER, (1) APS3200, (1) GTC331-500					
Engine stands: CF6-80C2, CFM56-3, CFM56-5, CFM56-7, PW4000			Stephen Toutt	stands@gatelesis.com	+1-954-676-3111
(1) APU GTC131-9A, (1) APU GTC131-9B	Now - Sale / Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
Engine stands now available	Now - Lease				
(2) PW901A, (1) PW901C(1), PW125B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368

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