

# Weekly Aviation Headline News

## WORLD NEWS

### Shell first to supply SAF to operators in Singapore

Shell announced that it has become the first supplier of sustainable aviation fuel (SAF) to customers in Singapore. Shell has also completed the upgrading of its facility in Singapore which will enable blending of SAF in Singapore. SAF is approved for use in aircraft operating today only when blended in a ratio of up to 50% with conventional jet fuel. The SAF supplied is made from waste products and sustainable feedstocks and will be blended with conventional jet fuel.

### WFS gains Turkish Airlines' cargo contracts in Dallas and Houston

Worldwide Flight Services (WFS) has extended its cargo handling partnerships with Turkish Airlines in North America Dallas/Fort Worth and Houston. In Dallas, WFS has commenced handling services for the airline's four Boeing 777 passenger flights to Istanbul. The new contract at Houston will begin in March and will see the local WFS team handle 3-4 freighter flights per week plus daily B777 passenger services to the Turkish city. WFS already holds a freighter ramp handling contract with the airline in Houston.

### Airbus supports Philippine Airlines cabin upgrade and material services

Philippine Airlines (PAL) has selected Airbus to perform cabin modification for 15 aircraft and expand the material services programme for the airline's Airbus fleet. The cabin modification agreement covers 11 A320, two A330-300s and two A350-900s. PAL is also extending its Flight Hour Services material programme with Airbus to cover more of its fleet, with guaranteed parts availability to secure the operational reliability and efficiency of PAL's fleet.



SIAEC has invested about S\$9.0 million to develop the facility.

Photo: SIAEC

## SIA Engineering opens new engine facility

With services for CFM LEAP-1A and-1B

SIA Engineering Company Limited ("SIAEC") has opened its new aircraft engine services (AES) facility in Singapore to provide engine maintenance services to Safran Aircraft Engines (SAE). SIAEC, which invested approximately S\$9.0 million to develop the facility, will provide Engine Quick Turn (QT) and modification embodiment services for both CFM LEAP-1A and LEAP-1B engines at this engine shop.

The CFM LEAP engines are the next-generation engines replacing the matured V2500s and CFM56s. LEAP-1A engines are deployed on the Airbus A320neo

while LEAP-1B engines are used for the Boeing 737 MAX, both narrow body aircraft. There are 3,971 LEAP engines in service for 127 operators as of 31 December 2021 and more than 19,000 total orders.

**"The opening of AES reflects the continual growth of the engine MRO and capabilities of our engine services division."**

*Mr Ng Chin Hwee, SIAEC's CEO*

AES provides the added capabilities and capacity for SIAEC to grow its comprehensive suite of engine-related services to its OEM partners

and airline customers. This includes engine QT maintenance which involves specific work to minimise engine time off-wing, thereby optimising both engine availability and reliability on-wing. It will enhance support for the engine MRO value chain by increasing engine repair network capacity, reducing turnaround time and minimising aircraft downtime for the airlines. Mr Ng Chin Hwee, SIAEC's CEO said: "With this new facility, SIAEC will

be amongst the first engine MRO shops in the region to provide enhanced engine maintenance

*Continued on page 3*

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services support for the next-gen CFM LEAP-1A and -1B powered aircraft. While AES is dedicated to serving SAE currently, we hope to extend our services to a wider market in future as a recovery in global air travel leads to greater demand for quick turn maintenance and shorter engine turnaround, particularly those on narrow-body aircraft."

He continued: "The opening of AES reflects the continual growth of the engine MRO and capabilities of our Engine Services Division. We continue to engage and collaborate with our OEM partners with a focus on creating value and bringing enhanced services to our OEM partners and airline customers."

Ms Lim Ai Ting, JTC's Director of Aerospace

and Marine Cluster said: "SIAEC's latest facility is a testament to the industry's confidence in Singapore's strong foundations and commitment to grow the aviation and aerospace sectors. Riding on the industry's recovery, we are expecting more facility expansions and openings in Changi and Seletar Aerospace Park this year."

## AIRCRAFT & ENGINE NEWS

### Jazeera Airways confirms order for 28 new A320neo-family aircraft

Jazeera Airways, the Kuwaiti-based carrier, has firmed up an order with Airbus for 28 aircraft, including 20 A320neos and eight A321neos. The order confirms the Memorandum of Understanding announced in November 2021. "We are pleased to confirm this latest order with Airbus," said Rohit Ramachandran, Jazeera Airways Chief Executive Officer. "By taking both A320neo and A321neo versions we will have great flexibility to extend our network to medium- and longer-haul destinations from Kuwait, offering passengers more choice to travel and enjoy popular destinations as much as underserved ones."

### Aergo Capital delivers one Boeing 737-800 aircraft to Alliance Aviation Group

Aergo Capital Limited (Aergo) has successfully delivered one 2010 vintage Boeing 737-800 aircraft bearing manufacturer serial number 37247 to Alliance Aviation Group. Fred Browne, Chief Executive Officer of Aergo, commented: "We are pleased to announce the successful delivery of the Boeing 737-800 to Alliance. I would like to commend the team at Alliance and those involved for the ease at which this deal was concluded, and we look forward to further developing our relationship with the airline." Brendan McQuaid, Chief Executive Officer of Alliance Aviation Group, commented: "We are delighted to have had the opportunity to work with the Aergo Capital team on the lease of this 737-800 and the onboarding onto our AOC. We have seen stellar growth in the past 18 months, and we hope that this transaction will be the first of many more to come."

### BOC Aviation orders eight CFM LEAP-1A engine shipsets

BOC Aviation has announced orders for eight shipsets of CFM International LEAP-1A

### ST Engineering to lease up to five Airbus A320P2F aircraft to Vaayu Group



The first A320P2F aircraft

Photo: ST Engineering

ST Engineering's Commercial Aerospace business has signed an agreement to lease up to five Airbus A320 Passenger-to-Freighter (P2F) aircraft to Vaayu Group (Vaayu). Astral Aviation, one of the fastest-growing all-cargo airlines based in Nairobi, Kenya, will be the launch operator for the first two of the five A320P2F aircraft by sub-leasing them from Vaayu. The first A320P2F, which is being converted by ST Engineering, is expected to be placed on lease in 2Q 2022. This will also be the world's first A320P2F aircraft to go into operation. ST Engineering will convert and lease the remaining four freighter aircraft progressively. The A320P2F is one of the two variants – the other being the A321P2F – in the Airbus narrow-body P2F programme by ST Engineering, Airbus and their joint venture Elbe Flugzeugwerke. The A320/A321P2F conversion programmes are the first in its size category with easy-to-operate volumetric usability that offers both main deck and lower deck containerised loading. Coupled with the fact that the family of A320/A321 aircraft has modern fly-by-wire technology and advanced performance, the A320/A321P2F are ideal solutions for express domestic and regional operations.

engines to power new Airbus A320neo-family aircraft on order from Airbus and scheduled for delivery in 2023. CFM International is a 50/50 joint company between GE and Safran Aircraft Engines and produces engines for both the Airbus A320 family and Boeing 737 series. "CFM engines have powered our fleet since 1998, and we are pleased to build on this long-standing relationship. This contract signifies our continued confidence in the CFM Leap engine and reflects our customers' satisfaction in CFM

Leap-powered A320neo aircraft as an efficient and reliable airframe and engine combination," said Robert Martin, Managing Director and Chief Executive Officer of BOC Aviation. "With this order, CFM engines will power 486 aircraft in our portfolio and we look forward to continue providing our airline customers with fuel-efficient and technologically-advanced aircraft solutions," said David Walton, Deputy Managing Director and Chief Operating Officer, BOC Aviation.

## AIRCRAFT & ENGINE NEWS

### Asia-Pacific region will need over 17,600 new aircraft by 2040

According to Airbus' newest Global Market Forecast, the next 20-year passenger traffic growth of 5.3% per annum and accelerated retirement of older less fuel-efficient aircraft will see the Asia-Pacific region require 17,620 new passenger and freighter aircraft. Nearly 30% of these will replace older less fuel-efficient models. In a region which is home to 55% of the world's population, China, India and emerging economies such as Vietnam and Indonesia will be the principal drivers of growth in Asia-Pacific. GDP will grow at 3.6% per year compared to the world average 2.5% and double in value by 2040. The middle class, which is the likeliest to travel, will increase by 1.1 billion to 3.2 billion and the propensity for people to travel is set to almost triple by 2040. Of the demand for 17,620 aircraft, 13,660 are in the small category like the A220 and A320 family. In the medium- and long-range categories, Asia-Pacific will continue to drive demand with some 42% of global requirement. This translates to 2,470 medium- and 1,490 large-category aircraft. Cargo traffic in Asia-Pacific will also increase at 3.6% per annum, well above the global 3.1% average and will lead to a doubling in air freight in the region by 2040. Globally, express freight boosted by e-commerce will grow at an even faster pace of 4.7% per year. Overall, reflecting that strong growth over the next 20 years, there will be a need for some 2,440 freighters, of which 880 will be new build. Globally, in the next 20 years, there will be a need for some 39,000 new-build passenger and freighter aircraft, of which 15,250 will be for replacement. As a result, by 2040 the vast majority of commercial aircraft in operation will be the latest generation, up from some 13% today, considerably improving the CO2 efficiency of the world's commercial aircraft fleets.

### New-generation A350F freighter to join Etihad Airways fleet

Etihad Airways has signed a Letter of Intent (LoI) for seven A350F freighters to add to its existing fleet of five A350-1000 passenger versions. The announcement was made at the Singapore Airshow 2022. Etihad has also selected Airbus's Flight Hour Services (FHS) to support its entire A350 fleet.

### Pratt & Whitney Canada expands spare engine solution portfolio with new options for engine leasing and ownership



Photo: P&WC will add new lease-to-own option to its growing portfolio of spare engine solutions

Pratt & Whitney Canada (P&WC) has added a new lease-to-own option to its growing portfolio of spare engine solutions. The portfolio, launched in 2020, also includes flexible options such as long-term leasing and on-wing leasing, complementing the existing short-term rentals offering to customers who are looking to prioritise their spending, reduce costs, better plan their monthly expenses and extend aircraft life. With the lease-to-own option, customers can lease a new or used P&WC engine and own it by the end of the lease term. Other options in the spare engine solutions portfolio include long-term leasing – this equips the customer with a latest-configuration spare engine for 12 months or more at a competitive price, and on-wing leasing where P&WC leases an engine that will remain on-wing. In some cases, P&WC will purchase the customer's existing engine and lease one back to them, giving them access to capital and lowering their operating expenses, while extending the life of their mature aircraft, and short-term engine rental – available to customers while their engine is in the shop for scheduled or unscheduled maintenance.

### Eve and Microflite announce partnership to bring UAM services to Melbourne with initial order of up to 40 eVTOLs

Eve and Microflite, one of Australia's premier helicopter operators, have announced at the Singapore Airshow an order of up to 40 low-noise zero-emission eVTOL (electric vertical take-off and landing) aircraft to support the commencement of new electric UAM (Urban Air Mobility)



Australian helicopter operator Microflite, has ordered up to 40 low-noise zero-emission eVTOLs  
Photo: Embraer

operations in Australia in 2026. Microflite and Eve plan to begin their partnership using helicopters as a proof of concept to validate parameters that will apply to future eVTOL operations. This partnership also aims to develop new services and procedures that will create a safe and scalable operating environment for eVTOL operations together with communities and other industry stakeholders. "This order builds on the successful partnership we have established with Eve and validates the exciting potential of zero-emission aircraft in Australia. After working closely with Eve over the past few months, we have identified a network of potential routes and we look forward to working with commercial partners and communities to prioritise these routes and trial selected operations with our existing fleet," said Jonathan Booth, CEO of Microflite.



## AIRCRAFT & ENGINE NEWS

### JetBlue adds 30 Airbus A220s to order book

JetBlue has announced an agreement to exercise its option to add 30 additional Airbus A220-300 aircraft to its order book, bringing the total number of A220s in the airline's fleet and on order to 100. The aircraft's strong economics and operational performance are a key to JetBlue's long-term cost performance, while also enabling more sustainable flying, greater flexibility to support JetBlue's network strategy and the introduction of its all-new onboard experience to more customers. "We're already seeing benefits from the eight A220s we've added to the fleet and we're very happy to have more on the way," said Robin Hayes, Chief Executive Officer, JetBlue. "We've seen double-digit increases in customer satisfaction scores and these fuel-efficient aircraft support our leadership in reducing carbon emissions. With 30 additional A220s on order, we're in a position to accelerate our fleet modernisation plans to deliver stronger cost performance and support our focus city network strategy." In 2018, JetBlue announced its initial order of 60 A220s and the option for 60 additional aircraft. JetBlue converted 10 of 60 options to firm orders in 2019 and the 30 A220s announced on February 15, will enable acceleration of the retirement of JetBlue's Embraer E190 fleet.



JetBlue has converted 30 A220 aircraft options to firm orders

Photo: JetBlue

### Aergo Capital acquires first of three new Boeing 737-8 aircraft on lease to Lynx Air



Lynx Air, a privately owned Canadian airline, will lease three B737-8 aircraft from Aergo  
Photo: Aergo Capital

Aergo Capital Limited (Aergo) has completed a sale-and-leaseback of the first of three B737-8 aircraft with Lynx Air (Lynx), Canada's newest ultra-affordable carrier. Each of the three aircraft will be financed with equity provided by CarVal Investment funds and debt arranged by AV AirFinance. Fred Browne, Chief Executive Officer of Aergo, commented: "We are extremely happy to work together with Lynx Air and AV AirFinance on this transaction. With the closing of the first aircraft, Aergo has added a new aircraft type with the Max, a new lessee with Lynx Air, and a new financier, with AV Airfinance. We found all parties to be proactive and highly professional in this transaction which resulted in a smooth closing process. We look forward to further developing our commercial relationship with Lynx Air and AV AirFinance."

### SIA finalises order for A350F aircraft

Singapore Airlines (SIA) has finalised a purchase agreement with Airbus for seven A350F freighter aircraft at the Singapore Airshow. The order firms up the carrier's commitment to the new-generation freighter announced by the plane maker in December 2021. The newly ordered aircraft will replace the carrier's existing 747-400F fleet from the fourth quarter of 2025. The A350F meets the imminent wave of large freighter replacements and the evolving environmental requirements, shaping the future of air freight. The A350F will be powered by the latest technology, fuel-efficient Rolls-Royce Trent XWB-97 engines. The A350F is based on the most modern long-range passenger family. With a 109-tonne payload capability, the A350F will serve all cargo markets. The aircraft features a large main deck cargo door, with its fuselage length and capacity optimised around the industry's standard pallets and containers.



Computer rendering of Singapore Airlines' A350F

Photo: Airbus/FIXION

## AIRCRAFT & ENGINE NEWS

### American Airlines to expand Embraer fleet with order for three new E175 aircraft

American Airlines has signed a firm order with Embraer for three new E175s. The aircraft will be operated by American Airlines' wholly owned subsidiary, Envoy Air. With deliveries to be completed this year, Envoy's fleet of E175s will grow to over 100 aircraft by the end of 2022. The contract value is US\$160.2 million at current list prices and will be included in Embraer's 2021 fourth-quarter backlog. "Our incredible journey with Embraer began almost 25 years ago with the ERJ 145. Our partnership continues to grow today with the E175s, the core of our fleet. Not only are our customers happy with the aircraft, but the jet's outstanding performance has allowed us to continue to provide excellent service to American Airlines," said Pedro Fábregas, President & CEO of Envoy. "We look forward to receiving these three new aircraft later this year as we continue to expand our growing network."



The three new E175 aircraft will be operated by Envoy Air

Photo: Embraer

### Western Global Airlines expands all-Boeing fleet with first order of new-production freighters



Boeing 777 freighter in Western Global Airlines livery

Photo: Boeing

Boeing and Western Global Airlines have announced a firm order for two 777 freighters, the first new-production freighters for the all-Boeing cargo operator based in Estero, Fla. The order was finalised in January 2022 and is currently listed as unidentified in Boeing's order backlog. The agreement also includes an additional purchase option. Boeing has forecast that the global freighter fleet will grow by 70% in the next 20 years, with freight carriers such as Western Global supporting a rapidly expanding global e-commerce business and evolving supply chains.

### Middle River Aerostructure Systems provides "immersive" jet engine nacelle experience at the Singapore Airshow

Middle River Aerostructure Systems' (MRAS) expertise in developing and producing complex engine nacelles for jet-powered airliners and business jets took centre stage at the Singapore Airshow last week with the unique experience of literally stepping into a full-scale nacelle on the exhibit stand of parent company ST Engineering. In a first display of its type, the Airshow attendees experienced an immersive encounter that highlights the main elements of a nacelle – the external protection for a jet engine, which also contributes to its operating efficiency, along with reducing fuel consumption and lowering emissions and noise. The display represents a full-sized nacelle for a typical single-aisle jetliner in the 150-200-seat category, and highlights many of the design features and production techniques applied by MRAS. It begins with the air inlet, which is highly refined aerodynamically to reduce fuel burned, incorporating such features as a single-piece inlet lip skin, a single-piece composite inner acoustic barrel and low-weight composite outer barrel. "Being able to walk inside a full-scale nacelle provides a true experience of the size and inter-relationship of all elements that come together in this complex component on jet-powered aircraft," explained Terry Vernes, the Director of Process Engineering and Composite Operations at MRAS.



The MRAS nacelle was a prominent feature of ST Engineering's Singapore Airshow exhibit  
Photo: MRAS



## AIRCRAFT & ENGINE NEWS

### Atlas Air and Cainiao expand partnership with addition of new Boeing 747-8 freighter

Atlas Air and Cainiao Network (Cainiao), the logistics arm of Alibaba Group, have announced the expansion of their strategic partnership by adding a new Boeing 747-8 Freighter under a long-term agreement to increase capacity on routes between China and the Americas. This expansion builds upon Atlas Air's partnership with Cainiao and the new aircraft will enter service for Cainiao in the second quarter of 2022, linking China with the United States, Brazil and Chile. This Boeing 747-8F aircraft is among the last 747s ever to be produced by Boeing. As previously announced, Atlas Air has ordered the last four 747 production aircraft to capitalize on strong demand and deliver value for its customers, while also bolstering its commitment to environmental stewardship through the reduction of aircraft emissions, resource consumption and noise. The iconic Boeing 747 programme has been in operation for over 50-years and will continue to play a critical role in keeping global supply chains moving for decades to come.



Photo: Atlas Air

### AirAsia to lease 100+ Vertical Aerospace VX4 eVTOLs from Avolon



Photo: AirAsia Aviation Group orders 100 VX4 eVTOL drone aircraft

Avolon, the Ireland-headquartered aircraft lessor and provider of lease management services has announced that AirAsia Aviation Group (AirAsia) has signed a non-binding MoU for the lease of a minimum 100 Vertical Aerospace VX4 electric vertical take-off and landing (eVTOL) aircraft. Air Asia is looking to revolutionise air travel in the Southeast-Asia region by providing air mobility to a new passenger base. Through its Avalon-e investment and innovation affiliate, Avolon will also partner with AirAsia to develop a zero-emissions eVTOL industry-leading urban air mobility (UAM) platform in Southeast Asia. The two companies intend to now create a working group focused on obtaining local certification as well as research market opportunities and infrastructure needs for UAM. Together with Avolon, AirAsia will also further develop its AirAsia Super App to build a ride-sharing platform. With Brazil's Gol and Grupo Comporte ordering 250 Vertical Aerospace eVTOLs, Japan Airlines ordering 100 and now AirAsia ordering 100, Avolon has placed 90% of the 500 VX4 eVTOLs it agreed to purchase from Vertical Aerospace in June 2021. The four-passenger, one-pilot VX4 should reach speeds of up to 200mph with a range over 100 miles. It will be near-silent when in flight, produce zero operating emissions and offer a low-cost per passenger

mile. Tony Fernandes, CEO of Capital A commented: "Innovation has always been in our DNA and using technology to look at more efficient and sustainable ways of doing things is a core focus across Capital A (formerly AirAsia Group). Dómhnaig Slattery, CEO of Avolon commented: "Tony Fernandes is an aviation pioneer who has built AirAsia into one of the leading airlines in the world and has now also created Southeast Asia's fastest growing Super App anchored on travel. We are delighted to partner with AirAsia who share our vision of revolutionising the future of air travel.

### Eve and Skyports announce partnership to support development of Advanced Air Mobility CONOPS for Japan

Eve UAM, an Embraer company, and Skyports, a leading infrastructure provider for electric vertical take-off and landing (eVTOL) passenger and cargo vehicles, have agreed on a partnership that will support the development of a new Concept of Operations (CONOPS) for Advanced Air Mobility (AAM), including Urban Air Mobility (UAM), for the Japan Civil Aviation Bureau (JCAB). The initiative aims to provide a shared vision of airspace design, operation, infrastructure, and other benefits to enable AAM operation in Japan. The collaboration involves partners including Kanematsu Corporation, the major Japanese trading company with businesses in the aerospace industry, and Japan Airlines (JAL), the main Japanese passenger airline for domestic and international air transportation. Eve has partnered with Skyports in multiple and diverse concepts worldwide, forming a cooperation that examines the AAM ecosystem required for distinctive operating environments across the globe. This unique experience benefits the preparation of Japan's CONOPS and ensures that the needs of users, the Japanese community, and other stakeholders will be taken into account.



Skyports - Eve

Photo: Embraer

## AIRCRAFT & ENGINE NEWS

### Aviation Capital Group finalises order for 20 A220s

Global full-service aircraft lessor Aviation Capital Group (ACG), wholly owned by Tokyo Century Corporation, has signed a firm contract for 20 Airbus A220s following its order for 40 A320neo-family aircraft including five A321XLRs announced in December 2021. "We are delighted to expand our partnership with Airbus through this A220 order", said Steven C. Udvar-Hazy, Senior Vice President, OEM Relations & Market Development at ACG. "Our airline customers will appreciate the A220's environmental friendliness, passenger comfort and competitive operating economics." The A220 is the only aircraft purpose-built for the 100-150 seat market and brings together state-of-the-art aerodynamics, advanced materials and Pratt & Whitney's latest-generation PW1500G geared turbofan engines. Featuring a 50% reduced noise footprint and up to 25% lower fuel burn per seat compared to previous generation aircraft, as well as around 50% lower NOx emissions than industry standards, the A220 is a great aircraft for regional as well as long distance routes operations. The latest agreement lifts the total number of firm orders for the A220 above 700.



Aviation Capital Group has ordered 20 Airbus A220 aircraft

Photo: Airbus

### Malaysian Aviation Group to lease 25 Boeing 737-8s from Air Lease Corporation



Malaysian Airlines at Kuala Lumpur Airport

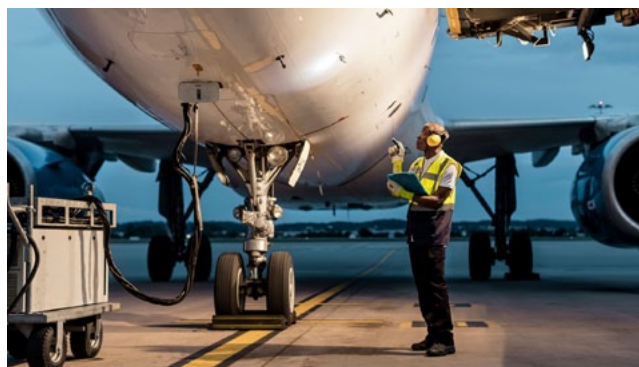
Photo: AirTeamImages

Los Angeles, California-based Air Lease Corporation (ALC), has announced that it has placed 25 Boeing 737-8 aircraft with Malaysian Aviation Group (MAG), the parent company of Malaysia Airlines. Deliveries are due to commence in early 2023 and will continue through until 2026, the planes coming from ALC's order book with Boeing. Izham Ismail, Group Chief Executive Officer of MAG said: "After a detailed tender process in the last quarter, we are pleased to appoint ALC as the aircraft lessor for our Boeing 737-8 fleet. This exercise is tied to the restructured terms of our existing orderbook with Boeing. We are happy to have in ALC, a partner who is committed to be part of our future endeavours as outlined in our Long-Term Business Plan 2.0 ('LTBP2.0'). The 737-8 is key to LTBP2.0 with its superior product offerings and better fleet performance which includes amongst others, improved fuel efficiencies of up to 15%. This aligns well with our sustainability journey, whilst also enabling MAB with greater flexibility and agility to implement our future network strategies." ALC is principally engaged in purchasing commercial aircraft and leasing them to its airline customers worldwide through customised aircraft leasing and financing solutions.

## MRO & PRODUCTION NEWS

### China Airlines, Tigerair Taiwan ink MRO agreements with Collins Aerospace

China Airlines and its low-cost subsidiary Tigerair Taiwan have signed long-term contracts for Collins' FlightSense® programme. Under the contracts, Collins will provide engine accessory repair services for China Airlines' fleet of 25 A321neo aircraft and engine accessory repair and spares support for Tigerair Taiwan's fleet of 15 A320neo aircraft. The fleets are powered by Pratt & Whitney's GTF™ engines, which Collins supplies a number of engine accessories for including electronic controls, starters, pumps, valves, sensors and harnesses. "While we've had smaller, piece part repair agreements with China Airlines and Tigerair in the past, this contract represents our biggest, most comprehensive MRO agreement with the airlines to date," said Henry Brooks, president, Power & Controls for Collins Aerospace. "It's a testament to how our relationship with China Airlines has grown over the years as a result of our commitment to provide round-the-clock quality maintenance and repair to keep their fleets on the move."



Maintenance diagnostics

Photo: Collins Aerospace/GettyImages



## MRO & PRODUCTION NEWS

### Safran opens new nacelle maintenance, repair and overhaul station in Asia

Safran Nacelles announced during the Singapore Airshow the opening of a new site in Suzhou, China, dedicated to the maintenance, repair and overhaul (MRO) of nacelles. It is currently being set up and will be operational in the second quarter of 2022. The Safran Nacelles-owned 5,200 m<sup>2</sup> (56,000 ft<sup>2</sup>) repair station is located on a Safran complex, which enables the company to benefit from shared corporate services. It is located in the heart of the Suzhou Free Zone, one hour west of Shanghai. This strategic location simplifies the material import and export processes for customers in the Asia region. This new site also complements the company's MRO network, which already covers Europe, the Middle East, the Indian peninsula and the Americas. It will also be used as a storage base for large nacelle components (air inlets, thrust reversers, exhaust, etc.) for the entire Asia region. The site is equipped with a dedicated MRO workshop and highly qualified personnel to repair nacelles and Line Replaceable Units (LRU). The on-site engineers are particularly expert in the repair of composite and metal aerostructures. They can also work on-wing, on aircraft operators' sites and offer Original Equipment Manufacturer (OEM) guaranteed repair solutions. Upon opening, the repair station will be certified by the Chinese (CAAC) and European (EASA) Air Authorities for the repair of nacelles and thrust reversers for the Airbus A330ceo and A320neo aircraft equipped with CFM International LEAP-1 engines and soon for the COMAC C919. The site teams are already supporting COMAC's final assembly line to prepare the entry-into-service of its medium-haul airliner.



Safran Nacelles will open a new nacelle MRO station in Suzhou, China

Photo: Safran

### Topcast Group signs new long-term agreement partnership with Cathay Pacific and HAECO ITM



Photo: Topcast Group at the Singapore Airshow 2022

Topcast Group, a global supplier of parts, services and solutions for the aviation industry, has agreed on a new long-term contract with Cathay Pacific and HAECO ITM at the Singapore Airshow 2022. Starting with a fresh year, Topcast Group took a big step in growth of earning two major multi-year agreements for providing aircraft jack repairing services with the new partner, Cathay Pacific and ACME batteries repair services for HAECO ITM. As the official MRO service provider of Tronair and Acme Aerospace, Topcast's high-quality service is guaranteed. In addition, despite the global challenges in 2021, Topcast has had a strong year of partnering with Eva Air for ACME batteries repairing agreement and commercial proposals of rebate programmes with Evergreen Aviation Technologies and China Airlines.

### CDB Aviation orders twelve more conversions from EFW advancing its A330 P2F strategy

CDB Aviation has committed to an additional twelve conversions with Elbe Flugzeugwerke GmbH (EFW), expanding its A330 P2F fleet to fourteen aircraft. Moreover, the lessor is on pace to launch the A330-300 P2F freighter type in China in 2022, with lease commitments from Sichuan Airlines and Jiangxi Cargo Airlines. "We have strategically positioned our platform to be the A330 P2F programme frontrunner among lessors," commented Patrick Hannigan, CDB Aviation's Chief Executive Officer, adding that the A330 P2F marked the lessor's first entry into the air cargo space. "We're very satisfied with this programme's progress and momentum to date and look forward to further expanding our freighter fleet in collaboration with our partners at Airbus, ST Engineering, and EFW." CDB Aviation's first two A330 P2Fs are currently being converted in EFW's facility in Dresden, Germany, and will be re-delivered to its launch operator, Mexico-based MasAir, in early 2022. CDB Aviation will expand its global conversion footprint by becoming the first customer for A330 P2F conversions to take place in the facilities of ST Engineering in Shanghai, China and VT MAE in Mobile, Alabama, USA. These conversion locations have been added to the existing A330 P2F conversion facilities of EFW in Dresden, Germany and ST Engineering in Singapore. By the middle of 2022, the lessor plans to have aircraft converted simultaneously at three locations – in Dresden, Shanghai, and Mobile.



CDB Aviation advances A330 P2F strategy with new conversion order  
Photo: EFW

## MRO & PRODUCTION NEWS

### Rolls-Royce and Luxaviation sign MOU to lead the way in Advanced Air Mobility operations

Rolls-Royce and the Luxaviation Group, a leading luxury jet and helicopter service provider, have announced plans to collaborate on leading the development and deployment of Advanced Air Mobility (AAM). Rolls-Royce will provide electrification solutions, maintenance support services and digital solutions for Luxaviation Group's planned network of vertiports. Luxaviation already has a presence at over 120 VIP terminals across the world. Both companies share a vision of Advanced Air Mobility solutions including all-electric and hybrid-electric vertical take-off and landing as well as fixed-wing commuter aircraft. The Memorandum of Understanding between Rolls-Royce Electrical, Rolls-Royce Power Systems and Luxaviation focuses on operations, vertiports and surrounding infrastructure to support these exciting new markets that will transform the way people travel. The strategic partnership will look at three main areas: charging and energy infrastructure for vertiports, maintenance

### Collins Aerospace to supply sensors to Hainan Airlines



Hainan Airlines Boeing 737

Photo: AirTeamImages

Collins Aerospace has signed a long-term agreement with Hainan Airlines to provide Pitot and total air temperature sensors (air data sensors) for its fleet of 500 aircraft, including the Airbus A320, Airbus A330 and Boeing 737NG. Hainan Airlines is a global airline, based out of China, with world-

wide routes. The Airbus aircraft will be retrofitted with the 0851MC Pitot probe, developed to comply with current FAA and EASA ice crystal and mixed phase icing requirements. This will provide the aircraft with improved performance during icing conditions, enhance safety and help keep flights on-time and on-schedule. In addition, Collins' OEM-approved Air Data Sensors — which are critical to aircraft performance by measuring a range of important data including air speed, altitude and air data computer calculations — will provide the Boeing 737NG fleet with higher product reliability, cost savings and improved aircraft efficiency.

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## MRO & PRODUCTION NEWS

provision for electric aircraft and digital solutions for related applications across AAM.

### China Airlines and LHT extend contract for further six years

China Airlines, the flag carrier of Taiwan, has extended the Total Component Support (TCS) contract with Lufthansa Technik for another six years minimum. The agreement covers component support for the Airbus A330 fleet comprising 23 aircraft. Lufthansa Technik also provides component services for the carrier's Airbus A350 fleet, including simulator components as well as auxiliary power units. Jason Tsai, VP Engineering Division of China Airlines, said: "The reliable and high-quality services we have experienced since 2010 had convinced us to extend the contract. A stable operation is crucial for us, and Lufthansa Technik has proven to be a dependable partner."

### SIAEP signs agreement with North American industries to provide aircraft recycling solutions

SIA Engineering (Philippines) Corporation (SIAEP) has signed an agreement with North American Aerospace Industries (NAAI), an aircraft part-out specialist, to provide sustainable, end-to-end aircraft recycling solutions. Under the agreement, SIAEP and NAAI will collaborate to provide a range of services including aircraft parking and storage, component harvesting and dismantling activities on aircraft that will be parted-out and recycled by NAAI. The programme will enhance SIAEP's support in the aircraft lifecycle eco-system, centred on a sustainable platform which includes the recycling, upcycling and used serviceability of materials. The services will be undertaken by SIAEP at its facility in Clark, Philippines.

### EFW secures new A321P2F orders from SmartLynx

Elbe Flugzeugwerke (EFW) Centre of Excellence for Airbus freighter conversions and joint venture of ST Engineering and Airbus, has received new orders for six A321 Passenger-to-Freighter (P2F) conversions from SmartLynx Airlines (SmartLynx), a European ACMI charter and cargo operator. This latest order will greatly boost the narrow-body freighter aircraft fleet of SmartLynx, which is currently operating an A321P2F aircraft converted by EFW. The conversions are scheduled in 2022 and 2023 and will be performed at ST Engineering's conversion sites in Singapore and China. SmartLynx will

### SIA Engineering Company to form component MRO joint venture with SR Technics in Malaysia

SIA Engineering Company Limited (SIAEC) has entered into an agreement with SR Technics Switzerland Ltd. (SR Technics) to acquire a 75% stake in SR Technics Malaysia Sdn Bhd (SRT Malaysia), to form a component maintenance, repair and overhaul (MRO) joint venture (JV). The JV will complement SIAEC's existing component repair and overhaul services and fleet management programmes.



Photo: SIA Engineering Company (SIAEC) to form a component maintenance, repair and overhaul joint venture with SR Technics in Malaysia

This follows the earlier announcement from March 1, 2021, of the potential acquisition (in part or whole) of SRT Malaysia, located in Selangor, Malaysia. Under the agreement, SR Technics will retain the remaining 25% stake. The consideration for the acquisition of SR Technics' 75% stake in SRT Malaysia is US\$3.75 million in cash. This was arrived at after arm's length negotiations on a willing-buyer, willing-seller basis, and after considering, inter alia, the net asset value and financial performance of SRT Malaysia. Based on SRT Malaysia's adjusted net tangible assets as of November 30, 2021, the net asset value of the SRT Malaysia shares acquired by SIAEC is US\$2.62 million. The completion of this transaction is subject to the satisfaction (or waiver) of conditions precedents set out in the agreement with SR Technics. (£1.00 = US\$1.36 at time of publication).

### Embraer, Widerøe and Rolls-Royce to research innovative technologies for sustainable regional aircraft



Photo: Embraer, Widerøe and Rolls-Royce will start a 12-month cooperation study to research innovative technologies for sustainable regional aircraft

connected in a post COVID-19 world but do so sustainably and seeks to accelerate the knowledge of the technologies necessary for this transition. Such technologies will allow national governments to continue to support passenger mobility while reusing most of the existing infrastructure in a more sustainable way. Advances in scientific research can make clean and renewable energy a major enabler of a new era of regional aviation and the three companies will share their combined in-depth knowledge of aircraft design, market demand, operations and propulsion solutions to further develop their understanding of zero-emission technologies and how they can be matured and applied to future regional aircraft. Among other topics, the study will cover a wide range of applications for new propulsion technologies to examine a range of potential solutions – including all-electric, hydrogen fuel cell or hydrogen fuelled gas turbine powered aircraft.

Embraer, Widerøe and Rolls-Royce have announced plans to study a conceptual zero-emission regional aircraft. The 12-month cooperation study – in the context of pre-competitive research and development – will address passenger requirements to stay connected

## MRO & PRODUCTION NEWS

operate all six A321P2F aircraft for DHL in Europe. "These new orders, which came after SmartLynx leased and operated its first A321P2F freighter converted by EFW, is a stamp of approval for our conversion solutions," said Andreas Sperl, CEO of EFW. "We are confident that our P2F programmes will create great value for customers such as SmartLynx, as they plan on growing their fleet with reliable and high-performance freighter aircraft."

### King Aerospace expands modification services with addition of two Arkansas hangars

King Aerospace Commercial Corporation (KACC) has signed a lease agreement for two hangars at the Northwest Arkansas Regional Airport (XNA) near Rogers. The secure-environment hangar spaces will be used to support highly specialized, FAA Part 145 modifications, engineering and integration services for mission-critical government or quasi-government wide-body aircraft. These include everything from upgraded airborne defence systems to next-generation information systems. The facility, which will be called KACC ARK, will also provide maintenance, installation, programme management and VIP interior refurbishment to accompany these specialized modifications. In preparation of King Aerospace's occupancy, the hangars have undergone significant upgrades. These include shop facilities, spray booth, exhaust systems, LED lighting and state-of-the-art fire suppression. In-house technicians and artisans will ensure interiors executed to perfection and impeccable special-equipment modifications to support needs unique to highly specialized government or quasi-government modifications. The hangars can hold multiple, wide-body aircraft, such as Boeing 747, 767 and 777 aircraft.

### Satair and Collins Aerospace sign distribution agreement

Satair, an Airbus Services company, and Collins Aerospace have signed a long-term agreement for the distribution of Collins's engine mounts, including detail parts and sub-assemblies for the CFM LEAP series on the Airbus A320neo aircraft family. Satair will provide distribution to its worldwide network of airline customers, repair organisations and aftermarket spare parts providers. With the foundation of an excellent distribution support setup for Collins's customers, Satair is equipped to deliver integrated aftermarket customer support on a global scale to operators and repair service providers across the A320neo platform, including the A319neo, A320neo and A321neo variants.

### Singapore Airlines and Scoot sign 787 MRO agreement with Collins Aerospace



Photo: Collins Aerospace has signed a 787 MRO agreement with Singapore Airlines and Scoot

Collins Aerospace has entered into a long-term MRO agreement with Singapore Airlines and Scoot, to support the Singapore Airlines Group fleet of 55 Boeing 787 aircraft. Through its FlightSense® programme, Collins will provide the airlines with full lifecycle support for high-performance pool access, maintenance services and reliability upgrades. Products supported under the agreement include Collins' air management systems, electric power generator and start systems, emergency power systems, fire suppression, sensors and lighting systems. The new agreement also extends Scoot's current FlightSense programme with Collins, which was signed in 2014, to include the airline's new 787 aircraft that will be delivered in 2023.

### SR Technics and Bamboo Airways sign MoU for MRO services

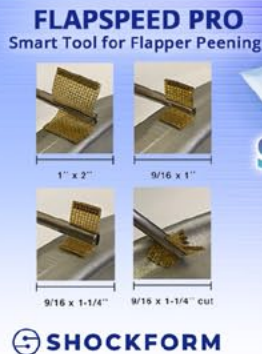


MRO signing ceremony with the management of Bamboo Airways and SR Technics

Photo: SR Technics

SR Technics has announced that it has signed an MoU for maintenance, repair and overhaul with Bamboo Airways at the Singapore Airshow 2022. The deal has been valued at US\$60 million whereby the two companies will jointly work together to explore areas of cooperation including CFM56-5B engines, training services, also providing technical services and component services by STRADE, SR Technics' brand for component services. Commenting on the MoU signing SR Technics CEO Jean-Marc Lenz said: "We are thrilled to welcome Bamboo Airways as a new SR Technics customer and look forward to meeting and exceeding their expectations. I am pleased that with this MoU we will further support our commitment to provide best-in-class MRO services in the aviation world. We look forward to the future development of our partnership. This will impact the growth and strengthen Vietnam's competitive position in serving the worldwide aviation MRO industry." "With the prestige and experience of SR Technics, we strongly believe the agreement with SR Technics' engines and other maintenance services for Bamboo Airways' fleet will help enhance our operation capacity, service quality as well as competitiveness on potential international flight routes in the future." said Nguyen Khac Hai, Deputy General Director of Bamboo Airways.





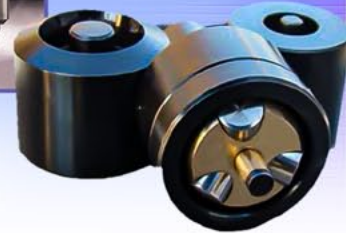
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## FINANCIAL NEWS

### Bombardier exceeds revised 2021 guidance and delivers positive full-year free cash flow

Bombardier has presented its fourth-quarter and full-year 2021 results and provided 2022 guidance. Bombardier reported increased revenues, a major rise in EBITDA and an increased and more diversified backlog, among other positive indicators. The positive trend is set to continue in 2022. In the fourth quarter, the company had six fewer deliveries for a total of 38 compared to 44 from the same period last year, mainly due to a more evenly distributed delivery profile on the Global 7500 throughout the rest of the year. Resulting business jet revenues were down US\$0.5 billion to US\$1.7 billion. Adjusted EBITDA increased meaningfully from US\$(1) million to US\$232 million, driven by higher margins from business aircraft manufacturing and services, mainly due to accretive margins on the Global 7500, reflecting learning curve improvements and execution of the cost reduction plan. Free cash flow of US\$314 million was US\$48 million higher from the same period last year. Business jet revenues for the full year were up 7% year-over-year at US\$6 billion. This was largely due to higher deliveries, a favorable aircraft mix and strong aftermarket performance at US\$1.2 billion, up 25% compared to last year. The company reported a significant adjusted EBITDA increase, which more than tripled to US\$640 million. The increase is a result of a better aircraft mix, combined with the progress on the Global 7500 aircraft learning curve, but also the improvements in the cost structure and higher aftermarket contributions. The 2021 reported EBIT is at US\$241 million. The 2021 free cash flow generation of US\$100 million from continuing operations represents an improvement of US\$2 billion year-over-year, thanks to earnings growth and a strong order intake. Net additions to PP&E and intangible assets from continuing operations for the full year were US\$232 million. Adjusted liquidity stands strong at US\$2.1 billion, and cash and cash equivalents were US\$1.7 billion as of December 31, 2021. (£1.00 = US\$1.36 at time of publication).

### MTU Maintenance posts net income of €342 million for 2021

MTU Aero Engines AG has published its preliminary figures for 2021: Revenue rose 5% from €3,977 million to €4,188 million. Operating profit was 13% higher at €468 million (2020: €416 million). The adjusted EBIT margin was 11.2%, compared with 10.5% in 2020. Net income climbed to €342 million in 2021 (2020: €294 million). In commercial maintenance (MRO), MTU raised revenue by 9% to €2,741

## INFORMATION TECHNOLOGY

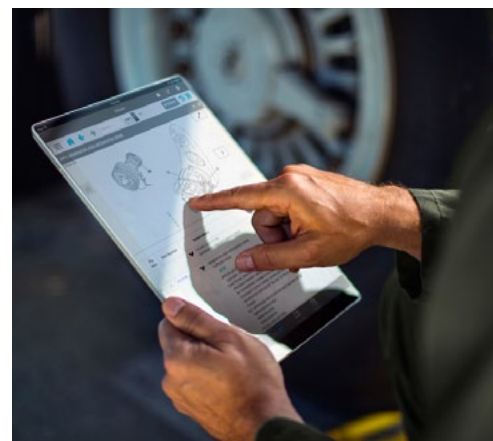
**Vietjet** and **Lufthansa Technik** have signed an agreement at the Singapore Airshow to adopt **AVIATAR's** Technical Logbook, the seamless digital pilot-to-maintenance collaboration application. The application will be equipped on Vietjet's entire fleet to replace the manual and paper-based process of capturing technical issues during flight and on ground and improve data quality and speed as well as transparency. AVIATAR's Technical Logbook enables completion of flight logbook input and maintenance pre-flight, during flight and upon arrival as it is seamlessly integrated in Vietjet's maintenance and engineering system. Furthermore, the application's advanced features and enhanced back-end capabilities will lead to decreased turnaround times while increasing the fleet's technical reliability and operational safety.



Photo: Rusada

Leading Emirati Oil & Gas and business aviation services operator **Falcon Aviation Services** has gone live with **Rusada's** ENVISION software. Falcon Aviation Services provides bespoke charter services to the oil & gas industry, as well as VIP and helicopter sightseeing tours using a diverse ultra-modern fleet consisting of 29 helicopters including Bell, AgustaWestland and Airbus, and six fixed-wing aircraft including De Havilland, Gulfstream and Embraer. It also offers a wide range of operational and aviation support services including, MRO, CAMO, FBO, aircraft management and heliport management, amongst others. After a successful implementation project conducted by Rusada's Middle East division, Falcon Aviation Services is now live on the system. It will use ENVISION to manage its airworthiness, maintenance planning, maintenance execution, and inventory through its Fleet Management, Base Maintenance and Inventory Management modules.

**Boeing** announced at the Singapore Airshow that **All Nippon Airways (ANA)** has signed an extension for Boeing's Maintenance Performance Toolbox for another five years. The Japanese carrier has used the Boeing digital solution the past eight years to manage maintenance information for its entire fleet of aircraft and engines. Maintenance Performance Toolbox allows operators to simplify their maintenance operations by enabling them to manage, distribute, process and view intelligent maintenance documentation in a uniform digital format through a single interface, regardless of aircraft manufacturer or engine type.



ANA has signed an extension for Boeing's Maintenance Performance Toolbox  
Photo: Boeing



## FINANCIAL NEWS

million in 2021 (2020: €2,522 million). Around 60% of the revenue mix was work in MTU's core MRO business and around 40% comprises maintenance work on the Geared Turbofan™. "On a dollar-basis, MRO reported a 13% rise in revenue, which was not quite as strong as had been anticipated," said CFO Peter Kameritsch. MTU had assumed the commercial maintenance business would report organic revenue growth in the mid-teen percentage range. The main revenue drivers in this business were the PW1100G-JM engine for the A320neo and the V2500, which is used in the classic A320 aircraft. In the commercial engine business, MTU generated revenue of €1,066 million (2020: €1,052 million). Organic revenue increased by 5% in the spare parts business but fell by 6% in the series business. "A quarterly view shows an organic improvement in both areas," said Kameritsch. "In the fourth quarter, revenue from the series business was about 20% higher than in the fourth quarter of 2020 and in the spare parts business the increase was around 40%." The PW1100G-JM for the A320neo was the main revenue driver in the commercial engine business. At the end of 2021, MTU's order backlog amounted to €22.2 billion, compared with €18.6 billion at year-end 2020. "That is a new record and further evidence of MTU's future viability," said Reiner Winkler, CEO of MTU Aero Engines. "In 2021, we secured commercial maintenance orders worth US\$4.6 billion. Particularly given the difficult market situation, that is evidence of MTU's strong market position." The order backlog mainly relates to V2500 and the Geared Turbofan™ engines in the PW1000G family, especially the PW1100G-JM. (€1.00 = €1.19 at time of publication).

## Airbus reports strong full-year 2021 results

Airbus has reported consolidated full-year (FY) 2021 financial results. The company reported consolidated revenues increased 4% to € 52.1 billion (2020: € 49.9 billion), mainly reflecting the higher number of commercial aircraft deliveries, partially offset by less favourable foreign exchange rates. A total of 611 commercial aircraft were delivered (2020: 566 aircraft), comprising 50 A220s, 483 A320 Family, 18 A330s, 55 A350s and five A380s. Revenues generated by Airbus' commercial aircraft activities increased 6%, largely reflecting the higher deliveries compared to 2020. Airbus Helicopters delivered 338 units (2020: 300 units), including the first H160, with revenues rising 4% reflecting growth in services and the higher deliveries. Revenues at Airbus Defence and Space decreased by 2%, mainly driven by Military Aircraft, partially offset by Space Systems. Eight A400M aircraft were delivered in 2021. Consolidated EBIT Adjusted – an alternative

## MILITARY AND DEFENCE

### Boeing to offer P-8A Poseidon for Canada's Multi-Mission Aircraft project



An aviation maintenance team loads sustainable aviation fuel into the 2021 Boeing ecoDemonstrator *Photo: Boeing*

Boeing intends to offer the P-8A Poseidon in response to Canada's Request for Information (RFI) for long-range maritime patrol aircraft. The Canadian Multi-Mission Aircraft (CMMA) project will replace the Royal Canadian Air Force fleet of CP-140 Aurora aircraft and enhance its anti-submarine warfare (ASW) and intelligence, surveillance and reconnaissance (ISR) capabilities. With more than 140 aircraft in service, the P-8 has executed more than 400,000 mishap-free flight-hours around the globe. Militaries that operate or have selected the P-8 include the U.S. Navy, the United Kingdom's Royal Air Force, Royal Australian Air Force, Royal New Zealand Air Force, Indian Navy, Royal Norwegian Air Force, Republic of Korea Navy and German Navy. The P-8 shares extensive commonality with Boeing's 737NG, which has support infrastructure around the globe. Commonality in spares and training for aircrews and maintainers reduces costs substantially and enables military operators to leverage support throughout the world. This proven aircraft and support infrastructure is the basis for delivering a rapid, low-risk, low-cost capability for Canada.

## OTHER NEWS



*Photo: Aviator will provide Eurowings with ground handling and de-icing services at the airline's base at Stockholm Arlanda airport*

**Aviator Airport Alliance**, a full-range provider of aviation services at 15 airports across the Nordics and a family member of one of the largest aerospace service groups **Avia Solutions Group**, has strengthened its partnership with **Eurowings** by signing a new contract. Under the new partnership agreement, Aviator will provide Eurowings with ground handling and de-icing services at the newly established

airline's base at Stockholm Arlanda airport. The contract will be in effect until 2028. This is not the first time the two successful aviation companies have partnered up. Aviator has been working with Eurowings since 2019, providing them with quality ground handling services among others in Stockholm, Gothenburg, and Malmö airports. Eurowings, headquartered at Cologne/Bonn Airport, is the leisure airline of the Lufthansa Group and thus part of the largest aviation group worldwide. The new Stockholm Arlanda base will be its fifth outside the German-speaking region, further strengthening its presence in the Swedish market.

## FINANCIAL NEWS

performance measure and key indicator capturing the underlying business margin by excluding material charges or profits caused by movements in provisions related to programmes, restructuring or foreign exchange impacts as well as capital gains/losses from the disposal and acquisition of businesses – was € 4,865 million (2020: € 1,706 million). The EBIT Adjusted related to Airbus' commercial aircraft activities increased to €3,570 million (2020: € 618 million), mainly driven by the delivery performance and efforts on cost containment and competitiveness. The financial result was €-315 million (2020: €-620 million). It mainly reflects the net interest result of €-246 million as well as the revaluation of financial instruments and of certain equity investments. Consolidated net income was €4,213 million (2020 net loss: €-1,133 million) with consolidated reported earnings per share of €5.36 (2020 loss per share: €-1.45). Consolidated free cash flow before M&A and customer financing was €3,515 million (2020: €-6,935 million), reflecting efforts on cash containment and a decrease in working capital, mainly driven by inventory improvement. Consolidated free cash flow was €3,511 million (2020: €-7,362 million). (£1.00 = €1.20 at time of publication).

## JAZEERA AIRWAYS RETURNS TO PROFITABILITY IN RECORD TIME IN 2021

Jazeera Airways returned to profitability for the year 2021 (January – December), a period which continued to be affected by the COVID-19 pandemic and restrictions on travel, reporting a net profit of KD7.1 million (US\$23.4m) for the year - up 126.8% from the previous year. The earnings were supported by an increase of 48.2% in the number of passengers flown, which reached 1.0 million, while load factors increased by 3.9% to 66.8% and yield increased by 28.6% to KD73.9. Operating revenue for 2021 stood at KD80.4 million (US\$265.3m), up 94.3%, and operating profit increased by 152.2% to KD10.8 million (US\$35.6m). Jazeera maintained the positive performance in the last quarter (Q4) of the year with a net profit of KD7.0 million (US\$23.1m) - a 164.6% increase from the same quarter of 2020. Operating revenue increased by 285.5% to KD33.1 million (US\$109.23m) while operating profit increased by 204.3% to KD9.3 million (US\$30.69m).

## EU Commission approves remaining €50 million of the hybrid loan by the State of Finland to Finnair

Finnair and the State of Finland have signed an agreement on a hybrid loan of maximum €400 million to support Finnair. The decision was made by the Plenary Session of the Government

## OTHER NEWS

The **Airbus Asia Training Centre** (AATC) has inaugurated its fourth A350 Full-Flight Simulator (FFS). The addition consolidates AATC's position as the largest Airbus-operated flight crew training centre in the company's global network, with two A320, two A330, one A380 and four A350 simulators. AATC also hosts one



Photo: Airbus A350 FFS

ATR 72-600 FFS. The focus on the A330, A350 and A380 reflects the popularity of Airbus wide-body aircraft in the Asia-Pacific region, with nearly 900 in service and around 220 currently on order for future delivery. AATC is a joint venture owned 55% by **Airbus** and 45% by **Singapore Airlines** (SIA). At almost 10,000 m² in size, the facility at Seletar Aerospace Park is part of the Airbus flight training network and serves the Asia-Pacific region and beyond. Since operations began in April 2016, AATC has successfully attracted 69 airline customers. AATC has the capacity to offer type rating and recurrent training courses for up to 10,000 trainees per year.



UIA has parked five Boeing 737-800 in Spain as a result of requests by leasing companies

Photo: AirTeamImages

With escalating tension between Russia and Ukraine, two Ukrainian carriers have revealed that they have encountered problems in securing flight insurance for several internal flights. Many foreign carriers have already begun to avoid Ukrainian airspace. **Ukraine International Airlines** (UIA) has confirmed that it has been notified by its insurers concerning internal flights. "UIA is making efforts and is constantly negotiating with insurance companies, the ministry of infrastructure of Ukraine, the state aviation administration and hopes for mutual understanding," the Ukrainian airline said in a statement. The Ukrainian government has allocated approximately £440 million to ensure flight safety for insurance and leasing companies to guarantee continuation of flights through its airspace. On Saturday, low-cost carrier **SkyUp** was forced to divert one of its flights from Portugal but has since reached an agreement with the Ukrainian government. "Negotiations with insurers have been difficult and our foreign partners continue to regularly assess their own risks and monitor the situation," the airline said in a statement. Many long-haul carriers are now avoiding Ukrainian airspace, with **KLM** also cancelling all flights to Ukraine and **Lufthansa** considering suspending all flights. UIA currently has a fleet of 25 aircraft, of which five Boeing 737-800s have been flown to Spain as a result of requests by leasing companies, and two are currently in Serbia undergoing scheduled maintenance. The future plans for the rest of its fleet remain fluid.



## FINANCIAL NEWS

on February 18, 2021. The arrangement has the approval of the EU Commission's competition authority in line with the European Union's state aid rules. The company also stated that of the credit limit, approximately €350 million can be used by Finnair based on the state aid decision made by the Commission on March 12, 2021, and that the remaining approximately €50-million-share will be brought to approval by the Commission at a later stage. The Commission has now approved the remaining €50-million-share and, therefore, the entire amount of €400 million is available for Finnair to use. Finnair is able to access the funds, if its cash or equity position would drop below the limits that have been defined in the facility's terms and conditions.

## INDUSTRY PEOPLE



Christopher T. Calio and Shane G. Eddy

- Raytheon Technologies has announced the appointment of **Christopher T. Calio** as Chief Operating Officer and named **Shane G. Eddy** to succeed Calio as President of its Pratt & Whitney business unit, effective March 1, 2022. As Chief Operating Officer, Calio will oversee the company's four business units as well as its technology and engineering, enterprise services and digital and operations, quality, environmental, health and safety and supply chain functions. Calio will continue to report directly to Chairman and CEO **Greg Hayes**. Eddy, currently SVP and Chief Operations Officer at Pratt & Whitney, replaces Calio as President of Pratt & Whitney. He joined Pratt & Whitney in 2016, with prior experience at GE Aviation, Sikorsky Aircraft Corporation and Bell Textron.

- CDB Aviation, a wholly owned Irish subsidiary of China Development Bank Financial Leasing Co., (CDB Leasing), has released that former GECAS executive **Ryan Barrett** has joined its commercial team as Head



Ryan Barrett

of Commercial, Asia Pacific. The continued build-out of the lessor's commercial leadership is part of ongoing efforts to strengthen CDB Aviation's strategic presence in key markets around the world. The appointment comes on the heels of the recent addition of **Michelle Wu** as Head of Commercial, Greater China. Barrett's two-decade-long aviation career is rooted in his extensive knowledge of airline business models and aircraft technical and finance aspects. Barrett is joining CDB Aviation from GECAS, where he held senior leadership roles in sales and marketing. Most recently, he was Senior Vice President Commercial, with responsibility for the full lease transaction lifecycle and leading the lessor's business development activities across the Middle East, Turkey and Africa. Barrett began his career at GE Aviation in the US, where he served in both technical and sales capacities, ending as Regional Sales Director in Dubai, overseeing customer strategies and commercial campaigns for new engine and MRO services sales in the Middle East.

- CFM International has named **Karl Sheldon** as Executive Vice President, replacing **Allen Paxson**. Paxson, who had served in the role since May 2014, was recently appointed Vice President, Commercial Programmes Strategy for GE Aviation. In this newly created role, he will be responsible for development and integration of strategies for the company's commercial markets, execution on advanced engine technology programmes, including the CFM RISE programme and sustainability efforts. Sheldon is also general manager of the CFM project department for GE Aviation. As part of the CFM Executive Team, he is responsible for overseeing programmes carried out by CFM. Along with his counterpart at Safran Aircraft Engines, Sébastien Imbourg, Sheldon also serves as the primary interface between the two companies.

- Ethiopian Airlines has announced the promotion of **Samson Arega** to the role of Ethiopian Airlines Regional Director for the USA. Arega has successfully led the Ethiopian Airlines Canadian office over the past three years managing several initiatives



Samson Arega

and bringing greater awareness to Canadians. Already performing many of the functions of a country manager in Canada, this promotion recognises increased responsibility and Arega's leadership ability to continue to lead in the future growth and success of Ethiopian Airlines in the USA market. During his time at the Ethiopian Airlines Canada office located in Toronto, Ontario, Arega excelled in managing essential stakeholder relationships pursuing portfolio growth and identifying opportunities for increased profitability and performance results through many suppliers and partnership relationships. Arega assumed the new role as USA Regional Director on Jan 20, 2022, at the Ethiopian office in Washington, DC.

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# THE AIRCRAFT AND ENGINE MARKETPLACE

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A319-100	BBAM	CFM56-5B5/P	2119	2004	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
A319-100	BBAM	CFM56-5B5/P	2283	2007	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
A319-100	ORIX Aviation	CFM56-5B5/3	5018	2012	Now	Sale / Lease	Oisín Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A319-112	Deucalion Aviation Limited	CFM56-5B63	3586	2008	Q2/2022	Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
A319-131	Deucalion Aviation Limited	V2522-A5	2375	2005	Q2/2022	Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
A320	Deucalion Aviation Limited	CFM56-5B4/P	1571	2001	Now	Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
A320-200	BBAM	V2527-A5	2587	2005	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
A320-232	Deucalion Aviation Limited	V2527	4323	2010	Now	Sale / Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
A320-232	ALTAVAIR	V2527-A5	4621	2011	Now	Sale / Lease	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493
A320-232	Willis Lease	V2527-A5	6865	2016	Feb 2022	Sale / Lease	Chris Giles	cgiles@willislease.com	+44 1656 754 788
A320-232	Willis Lease	V2527-A5	7163	2016	Now	Sale / Lease	Chris Giles	cgiles@willislease.com	+44 1656 754 788
A320-233ceo	FPG Amentum	V2527E-A5	4457	2010	Now	Sale / Lease	Lei Ma	ma.lei@fpg-amentum.aero	+852 9199 1875
A321-200	GA Telesis	V2533-A5	2255	2004	Q2/2022		David Byrne	aircraft@gatelesis.com	+353 86 780 8974
A321-200	GA Telesis	V2533-A5	2261	2004	Q2/2022		David Byrne	aircraft@gatelesis.com	+353 86 780 8974
A321-231	Deucalion Aviation Limited	V2533-A5	6009	2014	Now	Sale / Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
A321-231	Deucalion Aviation Limited	V2533-A5	6294	2014	Now	Sale / Lease	Jonathan Louch	aircraft@deucalion.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	ORIX Aviation	Trent 772B-60/16	1289	2012	Now	Sale / Lease	Oisín Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A330-200	Deucalion Aviation Limited	CF6-80E	814	2007	Now	Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
A330-200 (5x)	ALTAVAIR	Trent 772B-60/16	various	06-14	Q1/2022	Sale / Lease	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493
A330-300	ALTAVAIR	CF6-80E1A3	1580	2014	Q1/2023	Sale / Lease	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493
A330-200	Doric	Trent 772B-60/16	1407	2013	Now	Sale / Lease	Maurick Groeneveld	maurick.groeneveld@doric.com	+49 (0)69 247559931
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	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
A330-300	BBAM	CF6-80E1A3	1300	2012	Apr 2022	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
A330-300	Deucalion Aviation Limited	Trent 772B-60	1559	2014	Now	Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
A330-300	Deucalion Aviation Limited	Trent 772B-6	1146	2010	Q3/2022	Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
B737-700	BBAM	airframe only	32414	2003	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B737-8	Orix Aviation	CFM LEAP-1B	42825	2017	Q1/2022	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-8	Orix Aviation	CFM LEAP-1B	42826	2017	Q1/2022	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-8	Orix Aviation	CFM LEAP-1B	42827	2017	Q1/2022	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-8	Orix Aviation	CFM LEAP-1B	42828	2017	Q1/2022	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-8	Orix Aviation	CFM LEAP-1B	42829	2017	Q1/2022	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-8	Orix Aviation	CFM LEAP-1B	42830	2017	Q1/2022	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-8	Orix Aviation	CFM LEAP-1B	42831	2018	Q1/2022	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-8	Orix Aviation	CFM LEAP-1B	42832	2018	Q1/2022	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-8	Orix Aviation	CFM LEAP-1B	42833	2018	Q1/2022	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-8	Orix Aviation	CFM LEAP-1B	42835	2018	Q1/2022	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-8	Orix Aviation	CFM LEAP-1B	63971	2018	Q1/2022	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-8	Orix Aviation	CFM LEAP-1B	64992	2018	Q1/2022	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-800	BBAM	CFM56-7B24/3	34905	2007	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B737-800	Deucalion Aviation Limited	CFM56-7B27/3	37254	2011	Now	Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
B737-800	ORIX Aviation	CFM56-7B24E	40318	2012	Q2/2022	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-800SF	GA Telesis	CFM56-7B24	33003	2002	Q2/2022	Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451

# THE AIRCRAFT AND ENGINE MARKETPLACE

## Commercial Jet Aircraft (cont.)

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
B737-900	BBAM	CFM56-7B26/3	34953	2007	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B777-200ER	BBAM	GE90-90B	29004	1998	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B777-200ER	BBAM	GE90-94B	32721	2007	Q2/2023	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B777-200ER	BBAM	GE90-94B	35295	2007	Q2/2023	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B777-300ER	BBAM	GE90-115BL2	37898	2012	Apr 2022	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B777-300ER (8x)	ALTAVAIR	GE90-115B		06-13	Q1/2022	Sale / Lease	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493

## Regional Jet / Turboprop Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
CRJ-200	Regional One	CF34-3B1	7925	2004	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ-200	Regional One	CF34-3B1	7926	2004	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ-200	Regional One	CF34-3B1	7937	2004	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ-200	Regional One	CF34-3B1	7941	2006	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ-200ER	Regional One	CF34-3B1	8062	2006	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ-200ER	Regional One	CF34-3B1	8059	2005	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ-200LR	Regional One	CF34-3B1	7625	2002	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ900	Regional One	CF34-8C5	15215	2009	Now	Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ900	Regional One	CF34-8C5	15207	2008	Now	Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ900ER	Regional One	CF34-8C5	15111	2007	Now	Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ900ER	Regional One	CF34-8C5	15115	2007	Now	Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
DHC8-Q400	Regional One	PW150A	4042	2001	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
DHC8-Q400	Regional One	PW150A	4100	2005	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
ERJ-145LR	Regional One	AE3007	145508	2001	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
ERJ-145LR	Regional One	AE3007	145515	2001	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
ERJ170-100LR	Regional One	CF34-8E5	17000093	2005	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
SAAB 2000	Jetstream Aviation Capital	AE2100A	031	1996	Now	Sale / Lease	Donald Kamenz	dkamenz@jetstreamavcap.com	+1 (305) 447-1920 x 115
SAAB 340B CRG	Jetstream Aviation Capital	CT7-9B	224	1990	Nbow	Lease	Bill Jones	bjones@jetstreamavcap.com	+1 (305) 447-1920 x 102
SAAB 340B Plus	Jetstream Aviation Capital	CT7-9B	450	1998	Now	Lease	Bill Jones	bjones@jetstreamavcap.com	+1 (305) 447-1920 x 102

## Commercial Engines

CF34 Engines	Sale / Lease	Company	Contact	Email	Phone
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				
CF34-3A	Now - Sale / Lease				
(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
(1) CF34-8C5A1	Now - Sale/Lease/Exch.	Magellan Aviation Group	Bradley Hogan	bradley.hogan@magellangroup.net	+1 980.256.7120
(2) CF34-8C5B1	Now - Sale/Lease/Exch.				
(3) CF34-8E5A1	Now - Sale/Lease/Exch.				
(1) CF34-10E6	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717



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# THE AIRCRAFT AND ENGINE MARKETPLACE

## Commercial Engines (cont.)

CF6 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CF6-80E1A3	Now - Sale / Lease	GA Telesis		engines@gatelesis.com	
(1) CF6-80E1A4B	Now - Sale / Lease				
(1) CF6-80E1A3	Now - Lease	BBAM	Steve Zissis	info@bbam.com	+1 787 665 7039
(2) CF6-80E	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) CF6-80C2B1F	Now - Sale/Exchange	Chromalloy Asset Management	Hema Krishan	Hkrishan@chromalloy.com	+1 845-587-7102
(1) CF6-80C2B1F	Q3/2021 - Sale/Exchange				
(2) CF6-80E1	Now - Lease	Deucalion Aviation Limited	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
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) CFM56-5B2/P	Now - Lease				
(2) CFM56-7B26 (full QEC)	Now - Lease				
(1) CFM56-7B24	Now - Lease				
(4) CFM56-7B24/3	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(4) CFM56-5B4/3	Now - Lease				
(1) CFM56-5C4/P	Now - Lease				
(4) CFM56-7B24/E	Now - Lease				
(4) CFM56-7B24	Now - Lease				
(4) CFM56-7B26	Now - Lease				
(1) CFM56-5C4	Now - Lease				
(4) CFM56-5B4/P	Now - Lease				
(2) CFM56-7B26/3	Now - Lease				
(3) CFM56-7B26	Now - Sale / Lease				
(4) CFM56-5B5/P	Now - Sale / Lease	BBAM	Steve Zissis	info@bbam.com	+1 787 665 7039
(2) CFM56-5B6	Now - Sale / Lease				
CFM56-5 (all thrust levels)	Now - Sale / Lease	Contrail Aviation Support	Steve Williamson	steve@contrail.com	+1 720-276-5966
CFM56-7 (all thrust levels)	Now - Sale / Lease				
(2) CFM56-7B22	Now - Lease	Deucalion Aviation Limited	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
(multiple) CFM56-5B	Now - Sale / Lease	CFM Materials	Josef Noebauer	josef.noebauer@cfmmaterials.com	+1 469-628-3756
(multiple) CFM56-7B	Now - Sale / Lease				
(1) CFM56-7B26/3	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CFM56-7B24/E	Now - Lease				
(1) CFM56-5B4/3	Now - Lease				
(1) CFM56-5C4/P (u/s)	Now - Sale				
(1) CFM56-7B22/3	Now - Lease	Castlelake	Stuart MacGregor	Stuart.macgregor@castlelake.com	+44 207 190 6138
(1) CFM56-5B4/P	Now - Sale / Lease	GA Telesis		engines@gatelesis.com	
(1) CFM56-5B3/P	Now - Sale/Lease/Exch.				
(2) CFM56-5B6/P	Now - Sale/Lease/Exch.	Magellan Aviation Group	Bradley Hogan	bradley.hogan@magellangroup.net	+1 980.256.7120
(1) CFM56-7B27	Now - Sale/Lease/Exch.				
GE90 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) GE90-94B	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) GE90-115BL (Propulsor)	Now - Lease				
(2) GE90-90B	Now - Sale/Lease/Exch.	BBAM	Steve Zissis	info@bbam.com	+1 787 665 7039
LEAP Engines	Sale / Lease	Company	Contact	Email	Phone
(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
PW 4000 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) PW4062-3	Now - Sale / Exchange	Chromalloy Asset Management	Hema Krishan	Hkrishan@chromalloy.com	+1 845-587-7102
(1) PW4060-3	Q3/2021 - Sale/Exchange				
PW Small Engines	Sale / Lease	Company	Contact	Email	Phone
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

PW Small Engines	Sale / Lease	Company	Contact	Email	Phone
(1) PW150A	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	leasing@willislease.com	+1 (561) 349-8950
(6) PW127M	Now - Sale/Lease/Exch.				
(1) PW121	Now - Sale/Lease/Exch.	Magellan Aviation Group	Bradley Hogan	bradley.hogan@magellangroup.net	+1 980.256.7120
(1) PW123	Now - Sale/Lease/Exch.				
(1) PW127F	Now - Sale/Lease/Exch.				
(1) PW127M	Now - Sale/Lease/Exch.				
(1) PW150A	Now - Sale/Lease/Exch.				
(1) PW123B	Now - Sale/Lease/Exch.	Regional One	Duane Butler	dbutler@regionalone.com	+1 561-809-0001
(1) PW127F					
(1) PW150A					
Trent Engines	Sale / Lease	Company	Contact	Email	Phone
(2) Trent 772B-60	Q1/2022 - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	RRPF Marketing	RRPFMarketing@rolls-royce.com	+44 7528975877
(2) Trent 772C-60	Q1/2022 - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	RRPF Marketing	RRPFMarketing@rolls-royce.com	+44 7528975877
(1) Trent 556-60	Now - Sale/Lease/Exch.				
(1) Trent 772B-60	Now - Lease	BBAM	Steve Zissis	info@bbam.com	+1 787 665 7039
(1) Trent 772B-60	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
V2500 Engines	Sale / Lease	Company	Contact	Email	Phone
(3) V2522-A5	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	RRPF Marketing	RRPFMarketing@rolls-royce.com	+44 7528975877
(3) V2524-A5	Now - Sale/Lease/Exch.				
(3) V2527-A5	Now - Sale/Lease/Exch.				
(3) V2527E-A5	Now - Sale/Lease/Exch.				
(3) V2527M-A5	Now - Sale/Lease/Exch.				
(3) V2530-A5	Now - Sale/Lease/Exch.				
(2) V2533-A5	Now - Sale/Lease/Exch.				
V2500 (all thrust levels)	Now - Sale / Lease	Contrail Aviation Support	Steve Williamson	steve@contrail.com	+1 720-276-5966
(2) V2533-A5	Now - Sale/Lease/Exch.	Chromalloy Material Solutions	Hema Krishan	Hkrishan@chromalloy.com	+1 845-587-7102
(1) V2527-A5	Now - Sale/Lease/Exch.				
(2) V2533-A5	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) V2527-A5	Now - Lease				
(2) V2527-A5	Now - Lease	BBAM	Steve Zissis	info@bbam.com	+1 787 665 7039
(1) V2527-A5	Now - Sale / Lease	Castllake	Stuart MacGregor	Stuart.macgregor@castlake.com	+44 207 190 6138
(1) V2533-A5	Now - Lease	FTAI Aviation LLC	Tom McFarland	tmcfarland@ftaiair.com	+1 786 785 0788
(2) V2522-A5	Now - Lease	Deucalion Aviation Limited	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
(2) V2527-A5	Now - Lease				
(2) V2527-A5	Now - Sale/Lease/Exch.	Magellan Aviation Group	Bradley Hogan	bradley.hogan@magellangroup.net	+1 980.256.7120
(2) V2533-A5	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) V2527E-A5	Now - Lease				
(1) V2527-A5	Now - Sale / Lease	GA Telesis		engines@gatelesis.com	
Aircraft and Engine Parts, Components and Misc. Equipment					
Description		Company	Contact	Email	Phone
(1) GTCP331-500B	Now - Sale / Exchange	Centaurus Services/MASB	Paul Bithavas	paul.bithavas@centaurus.services	+61 408 389 241
Trent 892B-17 Modules					
(2) GTCP331-200ER, (2) GTCP131-9A, (1) GTCP131-9B	Now - Sale	Setna IO	David Chaimovitz	david@setnaio.com	+1-312-549-4459
(1) A321 Enhanced Landing Gear 2020 OH					
GE90-115B – Fan Stator Module – P/N 2115M15G04		Altavair	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493
(1) A320 ENH NLG, (2) A340 Landing Gear Shipsets		GA Telesis		landinggearsales@gatelesis.com	
Neutral CFM56-7B QEC Kit	Now - Sale	CFM Materials	Josef Noebauer	josef.noebauer@cfmmaterials.com	+1-214-988-6676
GTCP131-9A (2), GTCP131-9B(2)	Now - Lease	REVIMA APU	Olivier Hy	olivier.hy@revima-apu.com	+33(0)235563515
GTCP331-200, GTCP331-250	Now - Lease				
APS500C14(3), APS1000C12(2), APS2000	Now - Lease				
APS2300, APS3200(2), APS5000(2)	Now - Lease				
PW901A(4), PW901C(2)	Now - Sale / Lease				
TSCP700-4E	Now - Sale				
(1) RE220, (1) APS3200, (1) GTCP131-9A	Now - Sale / Lease	Magellan Aviation Group	Drew Megorden	drew.megorden@magellangroup.net	+1 704-340-0273
(1) GTCP131-9B, (1) GTCP331-500B	Now - Sale / Lease				
(1) GTCP131-9B, (1) GTCP131-9A	Now - Sale/Lease/Exch.	BBAM	Steve Zissis	info@bbam.com	+1 787 665 7039
(1) GTCP331-500B	Now - Sale/Lease/Exch.				
(2) GTCP331-350, (2) APS2300	Now - Sale / Lease	DASI	Chris Glascock	chris.glascock@dasi.com	+1 954-801-3592
(1) APS3200, (1) GTCP131-9B					
((1) GTCP331-200ER, (1) RE220RJ	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 954-683-1893
(1) APS1000-C12, (1) GTCP36-150RJ					
Neutral V2500-A5 QEC Kits (2) 745K9001-64	Now - Sale	ASI Aero	Dean Morgan	deanm@asiaero.net	+1 561-771-4253
(4) GTCP131-9A, (1) GTCP331-200, (2) GTCP131-9B, (1) GTCP331-200		GA Telesis	Jay Meshay	apu@gatelesis.com	+1-954-849-3509
(2) GTCP331-350, (1) GTCP331-500, (1) APS3200B, (2) APS3200C					
Engine stands: CF6-80C2, CFM56-3, CFM56-5A/B/C, PW4000			Ricky Torres	stands@gatelesis.com	+1-954-676-3111
(2) APU GTCP131-9B	Now - Sale / Lease	Willis Lease	Gavin Connolly	gconnolly@willislease.com	+44 1656 765 256
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