

# Weekly Aviation Headline News

## WORLD NEWS

### FAA concern on 737 MAX10 certification deadline

Reports have suggested that the United States FAA has told Boeing that it doubts the new MAX 10 will meet the safety standard deadline. Reportedly, the FAA has asked the OEM to provide updated schedules for the programme. According to Reuters, a 2020 law known as the Aircraft Certification, Safety, and Accountability Act, sets a late-December 2022 deadline for imposing a new safety standard for cockpit alerts.

### Alaska Air Cargo expands freighter fleet

Alaska Air Cargo announced it will add two Boeing 737-800 aircraft to its dedicated freighter fleet. These additions increase the freighter fleet from three to five aircraft and the two 737-800 converted aircraft will come from Alaska Airlines existing passenger fleet. They will be converted from their passenger configuration to an all-freight aircraft beginning this year. They're projected to re-enter service as freighters in 2023.

### IAG Cargo restarts flights to Australia

IAG Cargo has announced it has restarted the London Heathrow to Sydney route for the first time since early 2020, as Australia re-opens its borders to vaccinated passengers all over the world. From 27<sup>th</sup> March, IAG Cargo will be able to export and import vital goods on a daily rotation. The route will utilise a B787-9 aircraft with the capacity to transport up to 13 tonnes of cargo. The UK and Australian government signed a new UK-Australian trade deal in December 2021. It removes tariffs on UK exports and is designed to unlock billions of pounds worth of additional trade.



The CF6-80C2 engines powering the 767 has seen values go up.  
Photo: Amazon

## A mixed outlook for asset values

As traffic recovery slows down

A recent webinar by aviation industry consultancy IBA revealed a mixed outlook for aircraft engine values, as the recovery in air traffic is expected to slow due to the conflict in Ukraine, inflation rates and rising oil prices.

In a webinar on Emerging Engine Value Trends, IBA stated that the timeframe it previously forecast for aircraft engine shop visits returning to pre-Covid levels was now likely to be longer.

The number of engine lessors impacted by the Ukraine conflict and sanctions on Russia currently appears limited with those impacted reporting only a handful of engines exposed. According to data from IBA's InsightIQ platform, the CFM56-7B, CFM56-5B and V2500-A5, currently only have 2.81%, 4.71% and 1.11% respectively of their in-service fleets placed on leased aircraft located in Russia.

In the widebody aircraft sector, aircraft utilisation is steadily improving, but the slowed recovery has continued to depress values of engines powering mature fleets. The GP7200 which powers the A380 has fallen in value by 17.1% over the past year to US\$3.725 million, while the GE90-94B which

engines are faring better, with recovering or stable values. The Trent XWB (A350) has risen by 1.4% over the past year to US\$22.925 million, while the Trent 7000 engine (A330neo) saw a 0.9% rise to US\$19.1 million.

By contrast, IBA indicates a strong recovery in narrowbody aircraft utilisation which has led to greater value stability for engines powering the mature aircraft types. However, the CFM56-5B market continues to lag behind the CFM56-7B or V2500-A5 which have

both benefited from the US and Chinese domestic market recovery. The values of aircraft engines powering the new generation narrowbodies are broadly stable, with the LEAP-1A (A320neo) up 0.9% to US\$9.375 million over the past year, the LEAP-1B (B737 MAX) up 1% to US\$10 million, and the PW1127G (A320neo) static at US\$9.5 million.

**“New generation widebody aircraft engines are faring better, with recovering or stable values.”**

IBA

powers many older Boeing 777s has fallen to US\$3.1 million.

The exceptions in the mature widebody are the CF6-80C2 and PW4062 engines, which power Boeing 747 and 767 aircraft, and whose values have been driven upwards by 27% and 17% respectively as freighter operators battle over limited supply.

New generation widebody aircraft

## AIRCRAFT & ENGINE NEWS

### EFW receives STC for world's first A320P2F



The prototype A320P2F taking off for one of its final test flights

Photo: EFW

Elbe Flugzeugwerke (EFW), the centre of excellence for Airbus freighter conversions, has received Supplemental Type Certification (STC) from the European Union Aviation Safety Agency (EASA) for its head-of-version A320 Passenger-to-Freighter (P2F) aircraft. This prototype unit is the very first A320P2F aircraft to be developed, joining a family of Airbus P2F programmes that include the A330-200P2F, A330-300P2F and A321P2F. The A320P2F is the second variant in Airbus narrow-body P2F solutions. Similar to the A321P2F variant, the A320P2F is a collaboration between EFW and its parent companies, ST Engineering and Airbus, with EFW leading the overall programme as well as marketing and sales efforts. The prototype A320P2F aircraft is owned by the aviation leasing arm of ST Engineering. It will be the first of several converted freighter aircraft on lease to Vaayu Group, an aviation solutions and services group of companies.

### Air Canada to buy 26 XLR Airbus A321neos with option for 14 more

Air Canada has announced it has agreed to buy 26 of the extra-long-range (XLR) Airbus A321neos with deliveries to run between Q1 2024 and Q1 2027. The Canadian flag carrying airline has included an option for an additional 14 of the XLR variant which, if exercised, will be delivered between 2027 and 2030. The increased range of the new aircraft to 8,700 km will enable Air Canada to cover all of North America and certain transatlantic routes, subject to obtaining approval for overseas operations from Transport Canada. 15 of the jets will be leased from Air Lease Corporation, five leased from AerCap, while six will be purchased under an agreement with Airbus S.A.S. While increasing the size of Air Canada's fleet of aircraft, several of the new planes will replace older, less fuel-efficient aircraft, providing both cost savings and environmental benefits. Air Canada projects it will have up to 17% lower fuel burn per seat than the previous-generation narrow-body on a typical transcontinental flight and a projected reduction of up to 23% when compared to previous-generation wide-body aircraft on a transatlantic flight. "Air Canada is committed to further strengthen its market-leading position, especially through investments in new technology. The acquisition of the state-of-the-art Airbus A321XLR is an important element of this strategy and will drive our core priorities of elevating the customer experience, advancing our environmental goals, network expansion and increasing our overall cost efficiency," said Michael Rousseau, President and Chief Executive Officer of Air Canada. The carrier is yet to make a decision on the engines which will power its new A321neos.



Air Canada will replace older and less fuel-efficient aircraft with the newly ordered A321XLR

Photo: Airbus

Air Canada is committed to further strengthen its market-leading position, especially through investments in new technology. The acquisition of the state-of-the-art Airbus A321XLR is an important element of this strategy and will drive our core priorities of elevating the customer experience, advancing our environmental goals, network expansion and increasing our overall cost efficiency," said Michael Rousseau, President and Chief Executive Officer of Air Canada. The carrier is yet to make a decision on the engines which will power its new A321neos.



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## AIRCRAFT & ENGINE NEWS

### Air Greenland commits to purchasing or leasing a fleet of Vertical Aerospace VX4 eVTOL aircraft from Avolon

Avolon, the international aircraft leasing company, has announced that it has partnered with Air Greenland, the flag-carrier for Greenland, to bring zero-emissions travel to the region and to help tackle the issue of climate change. Avolon and Air Greenland will partner to form a Working Group to assess the opportunity to commercialise zero-emissions air travel in the region. The Working Group will also collaborate to identify local infrastructure and certification requirements for eVTOL aircraft. As part of the agreement, Air Greenland will commit to purchasing or leasing a fleet of VX4 eVTOL aircraft, manufactured by Vertical Aerospace (Vertical), from Avolon. Upon its introduction, the VX4 will be the most advanced and the safest eVTOL in the market and will be built to EASA safety certification standards – the most stringent global requirements and at the same level as commercial aircraft. The VX4 will be near silent when in flight and will have zero operating emissions, transporting four passengers and one pilot distances of over 100 miles at up to 200 miles per hour. The size of Air Greenland's VX4 fleet will be defined at the conclusion of the Working Group's assessment of the scale of the market opportunity.



Air Greenland is the first European airline to join Avolon's eVTOL programme, starting its decarbonisation journey where it matters the most  
*Photo: Avolon*

### China Eastern Airlines grounds all 109 Boeing 737-800s after fatal crash in mountains



China Eastern Airlines Boeing 737-800

*Photo: AirTeamImages*

A China Eastern Airlines Boeing 737-800, flight MU5735, with 123 passengers and nine crew onboard has crashed in a mountainous region of southern China on March 21. As a consequence, China Eastern Airlines has grounded all 109 of its fleet of Boeing 737-800 jets. The China Eastern Airways jet was on a domestic flight en route from Kunming, capital of the Yunnan province in south-western China, to Guangdong, which borders Hong Kong. Having taken off at 1.11 p.m. (all times provided are local time) the 737-800 was due to arrive at Guangzhou at 3.05 p.m. However, according to FlightRadar24, at 2.20 pm the six-year-old jet began a rapid descent at 31,000 feet per minute. The plane had been cruising at 29,100 feet at 14:20. Just over two minutes and 15 seconds later, data showed it had descended to 9,075 feet. Twenty seconds later, its last tracked altitude was 3,225 feet. According to both China's Civil Aviation Administration of China (CAAC) and the airline confirmed that contact with the plane had been lost over the city of Suzhou. At the time, online weather data indicated that conditions

were partly cloudy with good visibility. It was only in December 2021 that the Chinese aviation regulator cleared the 737-MAX to return to the skies after two fatal crashes, subject to technical upgrades and additional pilot training. China has launched an investigation into the crash and while the cause of the crash is still unknown, in the meantime one of the two black boxes has been found.



## AIRCRAFT & ENGINE NEWS

### NAC delivers one ATR 72-600 to Loganair

Nordic Aviation Capital (NAC) has delivered one ATR 72-600 aircraft, MSN 1237, to Loganair on lease. The 72-seat ATR, which will be registered G-LMTD and named Clan Duncan in service with Loganair, will become the airline's tenth ATR and forms part of its continuing fleet renewal programme. Loganair is the one of the largest regional airlines in the UK, operating 43 aircraft on a network covering over 40 destinations in the UK and Europe. In addition to its scheduled services, the airline operates contract services for several large companies across the distribution and oil & gas sectors together with charters for a wide range of sports teams.



Loganair ATR 72-600 aircraft

Photo: AirTeamImages

## MRO & PRODUCTION NEWS

### Liebherr and HAECO extend landing gear service agreement in China



Liebherr has developed and produced the landing gear system for the Embraer E-Jet E1  
Photo: Embraer

Anticipating the sustained recovery of regional jets in China, Liebherr-Aerospace and HAECO have extended their initial landing gear service agreement to offer state-of-the-art landing gear MRO services to Chinese Embraer E-Jet E1 operators. While Chinese operators progressively resume to full-flight operations, Liebherr-Aerospace has optimised its landing gear maintenance offer through a service agreement in China with HAECO Landing Gear Services. This unique relationship combines Liebherr-Aerospace's OEM expertise as the design and production company responsible for the Embraer E-Jet E1 landing gear system with HAECO Landing Gear Services, an MRO partner with vast expertise on landing gear maintenance services and with a facility in Xiamen, ideally located halfway between Hong Kong and Shanghai. Facing a stable MRO demand in the region, the OEM support to local operators who need to improve their supply chain performance became critical after aircraft grounding due to the pandemic. However, thanks to the successful cooperation of Liebherr with HAECO Landing Gear Services, the development of OEM slot capacity in China remains a distinct advantage when servicing events need to be rescheduled, which will lead to cost-efficient and shorter turn-around time.

### Flying classroom takes to the sky with support from Starling Aerospace

A project to facilitate the training of the next generation of aerospace engineers in the UK's only 'flying classroom' is fully operational thanks to the technical expertise of aircraft interior specialist, Starling Aerospace. Working in partnership with Cranfield University's National Flying Laboratory Centre (NFLC), Starling has completed a six-month programme of modification and re-certification of all 35 seats in the NFLC's Saab 340B aircraft, which is the latest educational asset to join the university's fleet. The project required a bespoke solution for the fitment of computer tablets and other equipment to each seat-back of the flying classroom. Starling was responsible for the complete design, fabrication, modification, re-certification and installation process, which provides aerospace engineering students from over 20 universities and Cranfield to gain invaluable flight test experience as part of their research studies. Operating from Cranfield's Global Research Airport in Bedfordshire, the Saab 340B is unique in the UK in its role to create new research capabilities, including projects which test the development of advanced aerospace technologies and flight operations.



Interior of NFLC's Saab 340B aircraft

Photo: Starling Aerospace

## MRO & PRODUCTION NEWS

### Southwest Airlines opens new technical operations hangar facility at Denver International Airport

Southwest Airlines has completed a major infrastructure investment to support its long-term vision for its Denver operation with the opening of a new Technical Operations complex at Denver International Airport (DEN). The nearly three-year, US\$100 million, 130,000 ft<sup>2</sup> project includes a large aircraft maintenance hangar and room for offices, training and warehousing to support the carrier's Technical Operations team and represents Southwest's continued commitment to Denver by bringing more job opportunities to the community. The new hangar adds an important location within Southwest's network to support scheduled, overnight maintenance of its fleet of nearly 730 Boeing 737 aircraft. The facility includes a space inside the hangar for three Boeing 737s and room for eight additional 737s outdoors and serves as the new home for Southwest's more than 100 Denver-based Technical Operations employees. The Technical Operations team will begin moving into the facility in the coming weeks. The hangar joins six other Southwest Airlines aircraft maintenance hangars located throughout the country including Atlanta, Chicago (Midway), Dallas (Love Field), Houston (Hobby), Orlando, and Phoenix.



Colorado One parked inside Southwest Airlines' Technical Operations hangar in Denver, Colo.  
Photo: Southwest Airlines

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## MRO & PRODUCTION NEWS

### Morocco and Israel sign MoU in aeronautics field

A Memorandum of Understanding (MoU) in the aeronautics sector has been signed during a meeting between the Moroccan Minister of Industry and Trade, Ryad Mezzour and the Chairman of the Board of Directors of Israel Aerospace Industries (IAI), Amir Peretz. The MoU is part implementation of the Joint Declaration between Morocco and Israel signed on December 22, 2020, in Rabat, whereby the two countries expressed their willingness to promote dynamic and innovative bilateral economic cooperation in the fields of investment and technology. "The Memorandum of Understanding we are signing today is a further step in creating a new partnership between IAI and the aerospace industries in Morocco. I know the incredible potential that exists in Morocco, and this is just the beginning," Amir Peretz announced. As part of this partnership, Morocco and IAI will target investment opportunities relating mainly to 3-D printing, the manufacture of cabin interiors and engine and aerostructure parts, plus the establishment of an R&D and engineering centre along with the development of a network of local suppliers through sourcing partnerships with IAI.



IAI President and CEO Boaz Levy, Morocco's Minister of Industry and Trade Ryad Mezzour and Chairman of the IAI Board of Directors Amir Peretz (left to right)  
Photo: IAI

### JMC Group and Complete Aircraft Group start B737-400F tear-down



Engine pre-removal

Photo: JMC Group

JMC Group's Fixed Price Team and Complete Aircraft Group (CAG) are close to completing a tear-down on a Boeing 737-400F. Dismantlement is taking place at Exeter Airport, UK and will be complete by the end of this month, resulting in the availability of 250 parts, including full cargo configuration and associated equipment. This marks the second joint venture project between JMC Group's and CAG's specialist teams. Tear-downs involve a staged process which guarantees the safe removal of aircraft parts in accordance with standard procedures. Once the components are harvested, the remaining aircraft hull is dismantled and shipped offsite for recycling. Complete Aircraft Group, specialists in sourcing and delivering quality recycled aircraft parts and components to the aviation industry is actively engaged sourcing retired commercial aircraft (airliner and business jets) for tear-downs. The business was bolstered last summer with the appointment of senior industry professional Alan Barnes as Head of Operations.

## FINANCIAL NEWS

### Skyports raises US\$23 million in first close of Series B funding round

Skyports, the electric air taxi infrastructure and drone services provider, has raised US\$23 million (£17.4 million) in the first close of its Series B funding round. The capital, from a combination of new and existing investors, will enable Skyports to consolidate its position as a global leader in the advanced air mobility infrastructure and drone operations markets.

All existing institutional shareholders participated in the round including Deutsche Bahn Digital Ventures, Groupe ADP, Solar Ventus, Irelandia and Levitate Capital, with a number materially increasing their stake. These investors were joined by Japanese conglomerate Kanematsu Corporation, global industrial property group Goodman Group, Italian airport platform 2i Aeroporti backed by Ardian's Infrastructure Fund and F2i Italian Infrastructure Fund, and US based VC firm GreenPoint. Kanematsu Corporation will take a seat on the Skyports board and will be joined by Ken Allen, CEO of DHL eCommerce who joins the board as an independent non-executive director. The new capital and the sizeable balance sheets of the investors enables Skyports to accelerate its work with the world's leading electric air taxi manufacturers and operators, providing take-off and landing infrastructure in key launch markets. Skyports will also materially scale its Drone Services operations in new and existing markets, building on active operations in the UK, Europe and Asia. Duncan Walker, CEO of Skyports said: "This is another great milestone for Skyports as we continue our journey to be the leading vertiport owner and operator in the world. The support of our original investors who have deep experience in aviation and infrastructure and the addition of new capital from world-class companies with a global footprint enables us to build the air taxi eco-system alongside our best-in-class vehicle partners for initial operations within a couple of years. Our growing Drone Services business puts us ahead of the curve with technology development, regulation and operational experience whilst reducing carbon emissions by using drones for a broad range of customers."



Photo: Skyports

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## MRO & PRODUCTION NEWS

### Magnetic Trading signs cooperation agreement with ITS

Magnetic Trading, part of Magnetic Group, has announced the signing of a cooperation agreement with ITS, the US-based nose-to-tail supply chain partner within the air transport aftermarket industry. The two companies have already been working together on an ad-hoc basis and thus the recent cooperation agreement is the natural next step in cooperation, allowing both parties to benefit from exclusive partnership terms. "Magnetic Group and Magnetic Trading are well-established brands with an extensive customer's portfolio – and we want to share our resources that will allow improving their service offering for their clients, including those who are using PBH, Line Maintenance and other services. We are proud to take our partnership further and looking forward to closer cooperation," added Dariusz Orvidas, Senior Key Account Manager at ITS.

### DC Aviation completes ten-year check on Global 5000

DC Aviation's maintenance centre at Stuttgart Airport has successfully completed a ten-year check on a Global 5000 aircraft, including an avionics and internet upgrade as well as cabin refurbishment. The extensive maintenance work included a general overhaul of the nose and main landing gear, including installation and removal. The airframe and flap fairings were partially painted for sustained protection against environmental influences. The idle period was also used for an overhaul of the aircraft cabin. In addition to the structural work, an avionics upgrade was performed in accordance with the latest standard. By using iPad Tablet Solutions for the electronic flight bag, constantly updated data (such as flight altitude) can be accessed using iPads. The cabin of the Global 5000 was also equipped with the KU-LuxStream ultra-high-speed internet service that enables data transmission of 15 Mbit/s worldwide, and even 25 Mbit/s in North American as far as Hawaii. The best communication and entertainment options for customers will be ensured in the future through the installation of three MIMO (multiple-input, multiple-output) antennae and new iPads as well as Apple TVs and Mac minis with a PLEX Home Theater server.

## FINANCIAL NEWS

### Turkish Technic posts 2021 financial results

Turkish Technic, the MRO provider with headquarters in Istanbul, Turkey, has released its financial results for 2021 which marked a successful growth and strong strategic acceleration compared to the previous year. The company recorded a 15.7% growth compared to 2020 with US\$1.034 billion (£783 million) in revenue and increased its market share to 1.6%. Showing its effect starting from 2020 at a global scale and bringing aviation sector to an almost complete halt, the COVID pandemic also affected Turkish Technic negatively just like others in aviation-related sectors. Yet, by quickly overcoming this negative effect and showing a successful performance, Turkish Technic received base maintenance authorisation for C/D Hangars of Istanbul Airport. Performing base maintenance of a Boeing 787-type aircraft for the first time, the company increased its number of landing gear maintenance by 40% and enhanced its landing gear maintenance repair capabilities.



Photo: Turkish Technic

### Textron to acquire electric aircraft pioneer Pipistrel



Photo: Pipistrel Velis Electro

Textron Inc. the multi-industry company behind brand names such as Bell, Cessna and Beechcraft, headquartered in Wichita, Kansas, has agreed to purchase Slovenia- and Italy-based Pipistrel, the manufacturer of small light aircraft and the Pipistrel Velis Electro, the world's first and currently only, electric aircraft to receive full type-certification from the European Union Aviation Safety Agency (EASA). The acquisition will provide Pipistrel with access to superior resources, together with a global network for sales and support, enabling it to accelerate its development and certification of electric and hybrid electric aircraft. With the acquisition, Textron will now create a new enterprise, Textron eAviation, devoted to the development of sustainable aircraft, including those by Pipistrel. Pipistrel was launched in 1989 and since then has sold over 2,500 light aircraft, while the company's history in the sustainable sector of the industry dates back to 2000, subsequent to which it has made several electric aircraft introductions, as well as having both hybrid and electric propulsion models under development. The sale of Pipistrel to Textron includes Pipistrel d.o.o., Pipistrel Vertical Solutions d.o.o and Pipistrel Italia S.r.l.

## MRO & PRODUCTION NEWS

### EirTrade Aviation introduces engine disassembly

EirTrade Aviation, the mature technical management and asset trading company, has augmented its dismantling capability with the addition of engine disassembly. The capability, which is available at EirTrade's facility in Dublin, will complement its existing aircraft disassembly activities which are based in the company's AFRA-accredited facility in Knock, West Ireland. "The introduction of the engine disassembly facility in Dublin will enable us to enhance the organisation's end-of-life product offering to the market and become a complete end-of-life solution provider," comments Lee Carey, VP Asset Management at EirTrade Aviation. "This vertical integration strategy will enable EirTrade to mitigate third-party and logistical costs and enable the organisation to gain access to material quicker to support our global client base." Carey has confirmed that the initial engine disassembly will be carried out under an agreement with Lufthansa Technik by Lufthansa-trained engineers who will be responsible for disassembly of the first eight engines in EirTrade's order book, after which all future work will be carried out by the company's own engineers.

## MILITARY AND DEFENCE

### IAI completes delivery of dozens of SATCOM terminals for fighter aircraft



SATCOM demonstration

Photo: IAI

Israel Aerospace Industries (IAI) has completed the delivery of dozens of SATCOM (Satellite Communication) terminals with a conformal electronically steered antenna for fighter aircraft. The SATCOM terminals are based on AESA (Active Electronic Scanned Array) technology and are installed on advanced 4.5 generation Western fighter jets. IAI's beyond line-of-sight solution ensures seamless voice and data communications, at any location, and even during fast, low-altitude flight. Utilising a unique flush-mounted antenna, the compact AESA SATCOM system eliminates antenna and radome drag and is therefore optimally

suited to a fighter aircraft's aggressive flight envelope, as well as to other platforms requiring low-drag performance. By relying on a single LRU phased array, the technology is installed and integrated smoothly and ensures a low life cycle cost. With a high-performance and robust network design, the system connects hundreds of registered users, and switches seamlessly between frequencies, at any given moment, according to the mission scenario and requirements.

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## MILITARY AND DEFENCE

### Boeing's Australian-produced uncrewed aircraft to be named 'MQ-28A Ghost Bat'

Boeing Australia has announced that the Australian Government and Royal Australian Air Force (RAAF) have selected 'MQ-28A Ghost Bat' as the military designator and name for the first Australian-produced military combat aircraft in over 50 years. "The introduction of the new popular name is a rare and special moment in aviation history for our RAAF partners and industry team of over 35 Australian suppliers," said Glen Ferguson, director Airpower Teaming System Australia and International. "Selecting the Ghost Bat, an Australian native mammal known for teaming together in a pack to detect and hunt, reflects the unique characteristics of the aircraft's sensors and intelligence, surveillance and reconnaissance abilities, and is a fitting name for this pioneering capability," said Ferguson. With a rapid development timetable of just three years from ideation to first flight, the development programme leverages advancements in digital engineering, advanced manufacturing and unique Australian supply chain technologies. While the RAAF Loyal Wingman development programme name will be phased out, Boeing's product name for global customers will remain the Airpower Teaming System.



The newly named "MQ-28A Ghost Bat" during the second test flight series at Woomera Range Complex in South Australia  
Photo: Boeing

### Lockheed Martin partners with Israel Aerospace Industries on Global Air Defence projects



SkyKeeper Battlespace Management System demonstration

Photo: Lockheed Martin

Lockheed Martin and Israel Aerospace Industries (IAI) have agreed to partner to jointly promote a Ground-based Air Defence (GBAD) system centred around the Lockheed Martin United Kingdom SkyKeeper and the BARAK MX system. As part of the partnership, Lockheed Martin and IAI will promote their technological and manufacturing expertise in air defence solutions that protect military forces and high-value assets from missile threats around the world. This new cooperation is a direct result of a Memorandum of Understanding (MoU) signed between the companies in July 2021 and after a review of relevant business opportunities. Scott Arnold, Vice President, Integrated Air and Missile Defence, Lockheed Martin Missiles and Fire Control, said: "We're looking forward to further developing our partnership with IAI and working together to deliver a state-of-the-art solution designed to address the critical gap in short- and medium-range ground-based air defence."

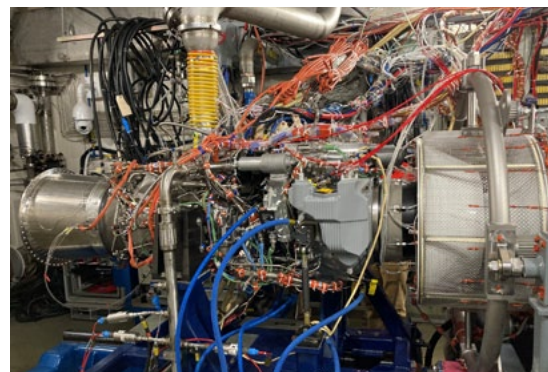
## FINANCIAL NEWS

### Leonardo to sell Global SATCOM Business for US\$450 million

Leonardo's US subsidiary Leonardo DRS has signed a definitive agreement to sell its Global Enterprise Solutions business (GES) to SES for US\$450 million, gross of taxes, subject to customary working capital adjustments. Closing of the deal is targeted for the second half of 2022 and is subject to customary regulatory approvals, including Hart-Scott-Rodino and the Committee on Foreign Investment in the United States (CFIUS) in the US. Leonardo has confirmed its FY2022 Group Net Debt Guidance of approximately €3.1 billion (£2.6 billion). Alessandro Profumo, Leonardo CEO, stated "The disposal of the GES business is another step

### GE begins testing on first T901 turboshaft engine for US Army

GE has initiated testing on the first T901-GE-900 engine, GE's next-generation rotorcraft engine that will power the US Army's UH-60 Black Hawk, AH-64 Apache and Future Attack Reconnaissance Aircraft (FARA) aircraft in the future. In 2019, the US Army selected GE's T901 engine for the Engineering and Manufacturing Development (EMD) phase of the Improved Turbine Engine (ITE) programme to re-engine its Apache and Black Hawk fleets. The Army also selected the 3,000-shaft horsepower T901 for the Future Attack Reconnaissance Aircraft (FARA) programme. The first engine to test is being performed in a recently upgraded test cell at GE's Lynn, Mass., facility. GE has upgraded three test cells in Lynn to efficiently complete the comprehensive T901 EMD engine test programme. The test cell upgrades include systems to absorb the increased power and allow no-load operation of the engine, improved instrumentation capability and upgraded test controls. T901 EMD engine testing will also be performed at GE's Evendale, Ohio, facility, as well as government facilities.



GE's Lynn test cell

Photo: GE Aviation

## FINANCIAL NEWS

forward in the execution of our industrial plan: we are optimising our portfolio and continuing to focus on our core business. The transaction announced today is also confirming our commitment to deliver on our targets, in line with our 2022 guidance. I'm also sure SES is the best industrial partner to ensure a successful long-term future for GES and all our stakeholders." The GES business is the largest provider of commercial satellite communications to the US government and delivers world-class, mission-critical satellite communications and security solutions to customers anywhere in the world.

### VINCI Airports sells stake in Stockholm Skavsta Airport management company to Arlandastad Group

Private airport operator VINCI Airports and Arlandastad Group AB, a Swedish real estate group, have signed a purchase agreement for the 90.1% stake in Stockholm Skavsta Flygplats AB held by VINCI Airports, owner of Skavsta Airport (Stockholm's secondary airport). The agreement is expected to be completed by April 2022 after fulfilment of the condition's precedent. Arlandastad Group is committed to developing the 484 hectares of airport land in partnership with the municipality of Nyköping. The local urban plan has already been initiated, paving the way for the development of a logistics zone and a large-scale business park. In this context, Arlandastad Group and VINCI Airports have signed an agreement enabling SunMind, a VINCI Concessions subsidiary, to develop, finance, build and maintain a solar farm on the airport site. Covering an area of 100 hectares and with a capacity of almost 100 MWp, it will be one of the largest solar power plants in Sweden. Connected to the public grid, it will help supply energy to the municipality of Nyköping. Arlandastad Group and VINCI Concessions will together explore opportunities for developing a programme of photovoltaic power plants in Sweden, in particular by using the land in Arlandastad Group's portfolio.

### HydrogenOne Capital Growth and Safran to jointly invest in UK flight innovator Cranfield Aerospace

HydrogenOne Capital Growth and Safran Corporate Ventures are pleased to announce that they have signed definitive agreements for a common investment in Cranfield Aerospace Solutions (CAeS) as part of a more than £10 million funding round. HGEN is investing a total of £7 million in this funding round and

## OTHER NEWS



Contract signing between Martin Thomsen Air bp SVP (l) and Frank Appel CEO Deutsche Post DHL Group (r)  
Photo: bp

bp is to supply **DHL Express** with sustainable aviation fuel (SAF) until 2026 as part of a new strategic collaboration with the global logistics company. The bp agreement is one of two deals comprising the largest sustainable aviation fuel (SAF) deals in aviation to date, with a combined volume of more than 800 million litres of SAF. The other supplier, entering in to separate agreement with DHL and making up the total volume, is Neste. In its Sustainability Roadmap, Deutsche Post DHL Group has committed to using 30% of SAF blending for all air transport by 2030. bp will provide SAF produced from waste oils. Such SAF from waste and residues can provide greenhouse gas emission reductions of up to 80% over its lifecycle compared with the conventional jet fuel it replaces, thereby reducing DHL's carbon footprint. DHL Express transports more than 480 million urgent documents and packages annually across its global network of 220 countries and territories.



Cebu Pacific Airbus A330neo

Photo: Airbus

**Cebu Pacific Air** has selected **SITA** to support its digital transformation agenda leveraging SITA's renowned AIRCOM® Cockpit Services integrated with Inmarsat's SwiftBroadband-Safety (SB-S) satellite network service. The combined solutions will enhance cockpit communications while delivering greater operational efficiencies on the airline's new Airbus A330neos. SITA's 2021 Air Transport IT Insights reveal that digitalisation is a top priority for the air transport industry's recovery from COVID-19. Cebu Pacific is one of many airlines embarking on a digital transformation agenda, including modernizing its fleet with features that allow for real-time updates to support better decision making around weather and flight planning. Through its AIRCOM® Cockpit Services portfolio, SITA has integrated Inmarsat's cutting-edge SB-S satellite network service, making Cebu Pacific the first airline to leverage the benefits of both services on its new fleet. It is also the first time SB-S has been delivered factory-fitted on an Airbus aircraft bringing more sophisticated, secure and reliable voice and data communications to the flight deck. IP connectivity, quicker data transmission with faster broadband speeds and coverage, will deliver several operational benefits for the airline.



## FINANCIAL NEWS

Safran Corporate Ventures £3.5 million. With this purchase of a minority equity stake, each company is entitled to a board seat at CAeS. CAeS is an aerospace market leader in the design and manufacture of new aircraft design concepts, complex modifications to existing aircraft and integration of cutting-edge technologies to meet the most challenging issues facing the aerospace industry today. CAeS has refocused the company on Project Fresson, the unlocking of commercial hydrogen-electric propulsion flight. In the early stages, CAeS will focus on CAA (Civil Aviation Authority) certification of the Britten-Norman Islander passenger aircraft using hydrogen fuel cell power. In parallel with its investment, Safran will work in partnership with CAeS spanning the area of hydrogen fuel cell powered electric propulsion for aviation.

## OTHER NEWS

**WestJet Cargo** and the **GTA Group** have agreed on a long-term partnership that will support the expansion and growth of domestic cargo opportunities for both businesses. Beginning in 2022, WestJet Cargo will partner with the GTA Group to increase shipping capacity using four dedicated Boeing 737-800NG freighters operated by WestJet, to fulfil overnight express cargo service out of WestJet's Toronto hub. "This partnership is building on proven success between WestJet Cargo and the GTA Group," said Charles Duncan, WestJet, Executive Vice-President, Cargo and President, Swoop. "WestJet Cargo will bring customers new competitive options and together with GTA we will disrupt the industry, providing more air freight capacity to domestic cargo customers who depend on reliable and on-time performance. We are eager to see these freighters take flight as we plan ahead to best serve Canadians and their business needs." WestJet's Boeing 737-800NG narrow-body aircraft is perfectly suited to serve the overnight express freight community offering increased flexibility and frequency. Quick to fill and fly, with among the best fuel efficiency in the cargo category, these freighters will provide the partnership a competitive cost advantage. In addition to dedicated freighters, WestJet Cargo will further support the GTA Group's service through WestJet's existing cargo business in the bellies of its commercial fleet.

**JetBlue** has released that it intends to expand the depth and breadth of its existing partnership with **Qatar Airways** to offer customers even more benefits when booking travel to and from international destinations on the global partner

## OTHER NEWS

**Pratt & Whitney** has announced its plans to open a world-class global supply chain support centre in Bengaluru, India. The **India Capability Centre (ICC)** will employ hundreds of analysts and data scientists to augment Pratt & Whitney's global supply chain, focused on digital capabilities. The centre began recruiting for its first tranche of 160 aerospace analysts and data scientists and is expected to begin initial operations by April 2022. The centre will be co-located at Collins Aerospace's campus in Yelahanka, Bengaluru. "India provides the perfect ecosystem of aerospace talent, innovation and capabilities for us," said Ashmita Sethi, President and Country Head, Pratt & Whitney. "Over the years we have made significant investments, including our state-of-the-art India Customer Training Centre in Hyderabad and our advanced R&D centre in Bengaluru. Our new centre is a great example of our continued commitment to India, and we aim to grow our in-country capabilities further." The India Capability Center will collaborate with teams across Pratt & Whitney's global supply chain, and will focus on supply chain operations, procurement, and digital analytics.



Artist rendering of Pratt & Whitney's Indian Capabilities Centre

Photo: P&W



Photo: Norwegian will hire more than 150 air crew that will be based at Helsinki Airport

As part of the preparations for the summer season, **Norwegian** has started recruitment of more than 150 air crew that will be based at **Helsinki Airport HEL**. Approximately 100 cabin crew and 50 pilots will be ready to operate 27 of Europe's most popular destinations that the company will service from Helsinki Airport during the summer season. The newly hired crew start working on a rolling basis over the coming months – March, April and May – as they undergo the necessary training before they can welcome the passengers onboard as part of their active duty. The 150 will be the first air crew with Norwegian based in Helsinki since April 2020 when the pandemic hit the global aviation industry. Norwegian received almost 2000 applications for the open positions. Since June 2021 and the first lifting of travel restrictions, the rate of employment has been up at Norwegian, and the company has reopened bases in Copenhagen, Stockholm, Bergen, Stavanger and Trondheim.

## OTHER NEWS

airline. This will include more code sharing in additional markets in the coming months, enhanced benefits for JetBlue TrueBlue® and Qatar Airways' Privilege Club loyalty members, expanded marketing opportunities and refinements to flight schedules to create new, convenient connections across both carriers. Already, Qatar Airways is one of JetBlue's top partners for connecting customers across the Americas to its global network, with traffic expected to grow further through new enhancements within the partnership. This new agreement will provide more options to travel between JetBlue's 100+ destinations across North America and the Caribbean and Qatar Airways global network of 82 countries. JetBlue places its code on Qatar Airways flights in – or offers connections through – nine US gateways. In addition, the airlines plan to develop an integrated airside transfer option for customers connecting at New York-JFK, JetBlue's largest focus city and Qatar Airways' most served US destination.

## INDUSTRY PEOPLE



Kenneth Merchant

• Aerogility, the model-based AI provider to the aviation industry, is to appoint **Kenneth D. Merchant** as special advisor in the Americas. Merchant will play a crucial role in Aerogility's expansion across the US, advising on market dynamics and supporting growth opportunities within the US defence, aerospace and MRO industries. Merchant has more than 40 years' experience working within US air defence, including a distinguished 34-year career in the Air Force. He currently serves as President at Life Cycle Solutions, an aerospace and defence consulting firm. Merchant previously

worked with Lockheed Martin as Vice President on the F-35 and F-22 programmes, where his experience included the F-22 Raptor Enhancement, Development and Integration (REDI) Programme. Major General Merchant served as director in the Air Force, with multiple experiences in global mobility programmes and logistics.

• SAS Executive Vice President and CFO, **Magnus Örnberg** has announced that he will leave SAS in the spring of 2022. "This has been one of the most interesting jobs I have ever had, and I am grateful to have been a part of this important and exciting business. It has not been an easy decision to leave such a stimulating environment and an absolutely fantastic team", said Örnberg. He will remain in his current role to ensure a smooth transition and SAS has started the prompt recruitment of his successor.



Photo: Finnair

Members of the **oneworld® Alliance** plan to purchase up to 200 million gallons of sustainable aviation fuel per year from Colorado-based renewable fuels producer Gevo, in the second such joint commitment by the global airline alliance in four months. Delivery of the fuel will commence from 2027, for a five year-term. oneworld is the first global airline alliance to jointly

commit to purchasing sustainable aviation fuel and the new commitment is the second of its kind. In November 2021, oneworld announced a joint commitment to purchase more than 350 million gallons of blended sustainable aviation fuel from **Aemetis** for operations at San Francisco and **Finnair** was among the members in this commitment. Finnair has set a long-term target to fly carbon neutral in 2045 and SAF is an important part of the toolkit for reaching this target. In March 2022, Finnair invited its customers to offset their flight emissions with a service that combines Sustainable Aviation Fuel and trusted climate projects. Finnair has flown individual flights with an SAF blend since 2011 and intends to increase the use of SAF in its flight operations. "The high price and limited availability of sustainable aviation fuels still present challenges for increasing its usage in commercial aviation, and thus stimulating demand and supply is important to drive down the price of SAF and to increase its availability – underlining the importance of joint commitments like that of oneworld member airlines," says Eveliina Huurre, SVP Sustainability at Finnair. Gevo's sustainable aviation fuel is produced using inedible corn products that are processed to create ethanol that is then converted into sustainable aviation fuel. The sustainable aviation fuel is expected to be produced at three facilities under development in the Midwest of the United States. Finnair has earlier partnered with Neste in Finland to increase the use of SAF and hence reduce flying's carbon emissions.

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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	FPG Amentum	V2527M-A5	3705	2008	Now	Sale / Lease	Eoin Kirby	eoin.kirby@fpg-amentum.aero	+353 86 027 3163
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
A319-133	Deucalion Aviation Limited	V2533M-A5	2965	2007	Q4/2022	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	Now	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
A330-300	Deucalion Aviation Limited	Trent 772B-60	1482	2014	Now	Sale / 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
B737-800	BBAM	CFM56-7B24/3	34905	2007	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
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
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	Deucalion Aviation Limited	GE90-94B	32721	2007	Q2/2023	Sale / Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
B777-200ER	Deucalion Aviation Limited	GE90-94B	35295	2007	Q2/2023	Sale / Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
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



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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
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				
(5) 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



# THE AIRCRAFT AND ENGINE MARKETPLACE

## Commercial Engines (cont.)

CF6 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CF6-80E1A4B	Now - Sale / Lease	GA Telesis		engines@gatelesis.com	
(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@ftaaviation.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				
(5) CFM56-7B24/3	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(6) CFM56-5B4/3	Now - Lease				
(1) CFM56-5C4/P	Now - Lease				
(4) CFM56-7B24/E	Now - Lease				
(2) CFM56-7B24	Now - Lease				
(2) CFM56-7B26	Now - Lease				
(1) CFM56-7B26E	Now - Lease				
(1) CFM56-5C4	Now - Lease				
(6) CFM56-5B4/P	Now - Lease				
(2) CFM56-7B26/3	Now - Lease				
(3) CFM56-7B26	Now - Sale / Lease	BBAM	Steve Zissis	info@bbam.com	+1 787 665 7039
(4) CFM56-5B5/P	Now - Sale / Lease				
(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	Castlelake	Stuart MacGregor	Stuart.macgregor@castlelake.com	+44 207 190 6138
(1) CFM56-7B22/3	Now - Lease				
(1) CFM56-5B4/P	Now - Sale / Lease	GA Telesis		engines@gatelesis.com	
(1) CFM56-5B3/P	Now - Sale/Lease/Exch.	Magellan Aviation Group	Bradley Hogan	bradley.hogan@magellangroup.net	+1 980.256.7120
(2) CFM56-5B6/P	Now - Sale/Lease/Exch.				
(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
(2) LEAP-1A33	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(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) PW4168	Now - Sale / Lease	Castlelake	Stuart MacGregor	Stuart.macgregor@castlelake.com	+44 207 190 6138
(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
(2) PW150A	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	leasing@willislease.com	+1 (561) 349-8950
(7) 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) PW150A	Now - Sale/Lease/Exch.	Regional One	Duane Butler	dbutler@regionalone.com	+1 561-809-0001
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
(2) V2527-A5	Now - Lease				
(2) V2527-A5	Now - Lease	BBAM	Steve Zissis	info@bbam.com	+1 787 665 7039
(2) V2527-A5	Now - Sale / Lease	Castlelake	Stuart MacGregor	Stuart.macgregor@castlelake.com	+44 207 190 6138
(1) V2533-A5	Now - Lease	FTAI Aviation LLC	Tom McFarland	tmcfarland@ftaiairline.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) 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					
GE90-115B – Fan Stator Module – P/N 2115M15G04		Altavair	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493
(2) A320, (1) A330, (1) A340 Landing Gear Shipsets		GA Telesis		landinggearsales@gatelesis.com	
(1) A320 ENH NLG					
Neutral CFM56-7B QEC Kit	Now - Sale	CFM Materials	Josef Noebauer	josef.noebauer@cfmmaterials.com	+1-214-988-6676
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) RE220, (1) APS3200, (1) GTC331-9A	Now - Sale / Lease	Magellan Aviation Group	Drew Megorden	drew.megorden@magellangroup.net	+1 704-340-0273
(1) GTC331-9B, (1) GTC331-500B	Now - Sale / Lease				
(1) GTC331-9B, (1) GTC331-9A	Now - Sale/Lease/Exch.	BBAM	Steve Zissis	info@bbam.com	+1 787 665 7039
(1) GTC331-500B	Now - Sale/Lease/Exch.				
(2) GTC331-350, (2) APS2300	Now - Sale / Lease	DASI	Chris Glascock	chris.glascock@dasi.com	+1 954-801-3592
(1) APS3200, (1) GTC331-9B					
((1) GTC331-200ER, (2) RE220RJ	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 954-683-1893
(2) GTC331-150RJ					
Neutral V2500-A5 QEC Kits (2) 745K9001-64	Now - Sale	ASI Aero	Dean Morgan	deanm@asiaero.net	+1 561-771-4253
(3) GTC331-9A, (2) GTC331-9B		GA Telesis	Jay Meshay	apu@gatelesis.com	+1-954-849-3509
(2) GTC331-350, (2) GTC331-500, (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 GTC331-9B	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