

Weekly Aviation Headline News

WORLD NEWS

United invests \$15M in electric flying taxi market

United Airlines announced a \$15 million investment in Eve Air Mobility and a conditional purchase agreement for 200 four-seat electric aircraft plus 200 options, expecting the first deliveries as early as 2026. This marks another significant investment from United in flying taxis – or eVTOLs (electric vertical take-off and landing vehicle) – that have the potential to revolutionise the commuter experience in cities around the world. Under the terms of the agreement, the companies intend to work on future projects, including studies on the development, use and application of Eve's aircraft and the urban air mobility (UAM) ecosystem.

Amsterdam Schiphol reports dip in cargo volumes

Amsterdam Airport Schiphol's total cargo volume for the first six months of 2022 decreased by -13.8% to 721,746 tonnes compared to the first six months of 2021, in line with global cargo trends. Half year cargo 2022 figures show decreased throughput year-on-year, with inbound cargo volumes decreased by -17.5% to 364,376 tonnes, and outbound cargo volumes also decreased by -9.7% to 357,369 tonnes during the same period in 2021. The main factors attributable to the decrease observed in 2022 were the global decrease of volumes transported and the loss of volumes from a large carrier operating from Russia.

Qatar and Virgin Australia sign new pact

Qatar Airways and Virgin Australia have commenced a new strategic partnership spanning 49 markets across Australia, Europe, the Middle East and Africa. The strategic partnership is set to provide a critical trade and tourism boost for Australia and Qatar, while opening a world of new travel opportunities for both airlines.



Cargo rates between Europe and North America have stabilised.

Photo: United Cargo

Cargo shows positive signs

As fall in demand eases

There is a glimpse of hope as an uptick in the global air freight market is anticipated in the lead up to the upcoming peak season after markets reported a decline in demand over the last four months. The latest weekly analysis from CLIVE Data Services, part of Xeneta, has reported that general air cargo rates between Europe and North America have stabilised.

Clive Data reveals that after -8% and -9% year-on-year falls in demand in June and July 2022, August volumes were a more modest -5% adrift of the August 2021 level, and -4% compared to the pre-pandemic 2019. Niall van de Wouw, Chief Airfreight Officer at Xeneta said: "In many respects, this latest data is quite remarkable relative to the two previous months because volumes in August – traditionally the quietest summer month due to the holiday season – levelled out and out-performed June and July when compared to last year's volumes.

The strong dollar and its parity with the euro clearly boosted demand from Europe to North America, with the westbound load factor remaining above average for the month at 61% and rates stabilising on these lanes," he said. Meanwhile IATA, based on its July 2022 data has indicated that air cargo is tracking at near 2019 levels

“Capacity shift could see a return to a seller's market again and load factors return to the mid 70 percent to 80 percent range.”

Niall van de Wouw, Chief Airfreight Officer at Xeneta

although it has taken a step back compared to the extra-ordinary performance of 2020-2021. Global demand, measured in cargo tonne-kilometres (CTKs), fell 9.7% compared to July 2021 (-10.2% for international operations). Demand stood at -3.5% compared to July 2019.

Capacity was 3.6% above July 2021 (+6.8% for international operations) but still 7.8% below July 2019 levels.

Willie Walsh, IATA's Director General commented: "Volatility resulting from supply chain constraints and evolving economic conditions has seen cargo markets essentially move sideways since April. July data shows us that air cargo continues to hold its own, but as is the case for almost all industries, we will need to carefully

watch both economic and political developments over the coming months," said Willie Walsh, IATA's Director General.

Mr Van de Wouw, at Xeneta echoed similar thoughts warning that the air

cargo market remained chaotic and difficult to predict but if the fall in demand is easing, however, as August indicates, that capacity shift could see a return to a seller's market again and load factors return to the mid 70% to 80% range.

"It is fair to assume volumes will be higher in November than in August," he said.

AIRCRAFT & ENGINE NEWS

Israeli four-engine ban set to hit converted 747 freighters and boost wide-body twin-engine freighter demand, reveals IBA

IBA, a leading aviation market intelligence and consulting company, has revealed a range of insights following Israel's decision to ban Boeing 747s and other four-engine aircraft in its airspace amid environmental concerns. Following the widespread demise of the passenger-carrying Boeing 747 following COVID-19, IBA reports that the largest impact of the ban is likely to be on the converted 747 freighter aircraft operated by Israeli flag carrier El Al Israel Airlines (El Al). Although the ban is mandated to come into effect from March 2023, it is believed that operators may be discouraged from operating such aircraft even sooner. Mike Yeomans, Director – Valuations and Consulting at IBA, comments: "According to IBA Insight, around 98% of four-engine aircraft departures from Tel Aviv this year have been freighters. Four-engine passenger aircraft numbers are dwindling, and few still operate from Tel Aviv following the withdrawal of El Al's Boeing passenger 747 fleet from service in 2019. "According to early reports, there are likely to be some exemptions under a licence agreement. IBA predicts that such exemptions will be applied to Boeing 747 factory freighters, as there is no viable no-loading alternative aircraft for oversized air freight." IBA believes that the ban will most likely affect the converted Boeing 747 fleet. This in turn will likely drive demand for the new generation of converted twin-aisle widebodies, including the Boeing 777-300ERSF, which is being developed by Israel Aerospace Industries (IAI) and AerCap. According to IAI, the 777-300ERSF will offer 15% more volume than the 747-400BCF, and 21% lower fuel burn compared with the 747-400F. If more countries and airports adopt similar stances on four-engine aircraft, the 777-300ERSF and its contemporaries should benefit. The Airbus A350F and the Boeing 777-8 freighter are expected to enter service in 2025 and 2027 respectively, with the former firmly targeting the replacement market for ageing Boeing 747 freighters. Sustainability goals and the drive for net-zero emissions has been a key factor in the demise of many four-engine aircraft. The most prolific four-engine aircraft in global passenger operations today is the Airbus A380. This type does not operate into Tel Aviv at present and there are currently only 122 active aircraft worldwide. Despite this, IBA noted a recent

CDB Aviation expands cooperation with Turkish Airlines through introduction of carrier's first A320neo

CDB Aviation, a wholly owned Irish subsidiary of China Development Bank Financial Leasing Co., (CDB Leasing), has delivered one Airbus A320neo aircraft to Turkish Airlines, the flag carrier of Türkiye. The transaction marks the introduction of the inaugural A320neo to the carrier's fleet. With the recently awarded IATA IEnvA Stage 2 certificate, which signifies the highest level of compliance with the IATA Environmental Assessment programme, Turkish Airlines has become a pioneer among airlines in undertaking sustainability-focused projects for every stage of its flight and ground operations in recent years.



Turkish Airlines has taken delivery of its first Airbus A320neo from CDB Aviation
Photo: Airbus

Emirates chooses the Thales AVANT Up system for new A350 fleet



Emirates will equip its new A350 fleet with the Thales AVANT Up system
Photo: Emirates

Emirates has selected the new Thales AVANT Up system for its incoming fleet of Airbus A350 aircraft, scheduled for delivery in 2024. The airline's investment of over US\$350 million (£302 million) will see its 50-strong fleet of A350s equipped with next-generation inflight entertainment solutions that offer a memorable cinematic

and personalised passenger experience. Adel al Redha, Emirates' Chief Operating Officer said: "Emirates has always regarded inflight entertainment as an essential aspect of our onboard experience, and we were in fact the first airline to put personal screens onto every single seat onboard when that was far from the norm over 30 years ago. Today, Emirates ice remains unmatched in inflight entertainment content and experience, having won best-in-the-sky awards consecutively for the past 14 years. Our investment in next-generation Thales systems for our new A350 fleet will further our lead, enabling us to deliver even better experiences to our customers. Watch this space." The game-changing technology in the Thales AVANT Up system features Optiq 4k QLED HDR displays – the only aircraft displays using Samsung's QLED technology to immerse viewers in more than a billion colours. This rich display capability provides the perfect medium for Emirates' unmatched ice inflight entertainment product which delivers over 5,000 channels of multi-language content including live TV, the latest box office movies, TV shows and music hits, and the world's first inflight shopping channel, EmiratesRED. The new system from Thales will also provide an enhanced 'live' television solution that offers a broader choice of live television and news in the highest available definition at 40,000 feet.

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AIRCRAFT & ENGINE NEWS

resurgence in A380 utilisation in its aviation Carbon Index, indicating a year-on-year increase of 177% in July 2022. Carbon emissions data from IBA NetZero reveals that four-engine aircraft represented only 0.8% of departures from Tel Aviv so far in 2022 and have accounted for 2.2% of total CO2 emissions on departing routes.

NAC completes aircraft sale to American Airlines and signs lease agreements with Connect Airlines

Nordic Aviation Capital (NAC) has completed the sale of four E170 aircraft and four CRJ900 aircraft to American Airlines based in Dallas, Texas. The eight aircraft will be placed into service by Envoy Air and PSA Airlines, both subsidiaries of American Airlines. Furthermore, NAC has executed a lease agreement for three Q400 aircraft with Connect Airlines based in Bedford, Massachusetts. The newly formed carrier aims to provide regional service between Canada and the U.S. Northeast and Midwest.

ALC places four new Airbus A321XLR aircraft with Air Transat

Air Lease Corporation (ALC) has announced long-term lease placements for four new Airbus A321XLR (extra-long-range) aircraft with Air Transat (Canada). Three new aircraft are confirmed to deliver to the airline starting at the end of 2025 through 2026 from ALC's order book with Airbus. The agreement also includes an option for one additional A321XLR aircraft to be delivered in 2027. "ALC is pleased to announce this lease placement for four new A321XLRs with Air Transat and be the first to introduce the XLR to the Canadian airline," said Steven Udvar-Házy, Executive Chairman of Air Lease Corporation. "The A321XLR will bring new levels of comfort and excellent service to Air Transat's passengers, while providing significant enhancements to the airline's operational efficiency."

Advanced Air Mobility innovator PAL-V International opens UK home at London Oxford Airport with its Liberty 'car that flies.'



The Liberty, the 'car that flies'.

Photo: PAL-V International

PAL-V International B.V. of the Netherlands, creator of the PAL-V Liberty car which flies as a gyrocopter with rotors which unfold from its roof, has taken up tenancy at London Oxford Airport. Headed by Sales Director Andy Wall, the Oxford office is also home to the UK's first 'fly drive' simulator, bookable via appointment. Here, would-be purchasers can become familiar with the vehicle's unique characteristics. PAL-V (which stands for Personal Air and Land Vehicle) is an early mover in the dynamic world of advanced air mobility. Led by Founder and CEO Robert Dingemans and COO Mike van den Broek, PAL-V International first started collaborating with EASA over 10-years ago to help the agency determine certification standards for a car that turns into a light rotorcraft. Here, it was able to draw on the expertise and experience of international management who honed their engineering skills at Fokker Aircraft, GKN, Bentley, Ferrari and Porsche. Working closely with EASA, PAL-V has been extracting data analysis, flight and drive tests and test data. Recently, the business, which employs over 120 people, started compliance demos to obtain its type certificate under EASA's CS-27 status. This will ultimately see the Liberty approved in 80% of the world market including the U.S.A. Once this milestone has been reached it can start ramping up for customer deliveries. The PAL-V Liberty seats two people in a fully enclosed cockpit. It can transition between road and air transport modes inside six minutes with its rotors secured into the vehicle. In drive mode, the Liberty has been designed for a maximum speed of around 160 km/h and a maximum range of 1315 km. In flight mode max cruise speed is 180 km/h with a maximum range of 400 to 500 km (equivalent to three hours with 30 minutes of reserve fuel).

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AIRCRAFT & ENGINE NEWS

Embraer's Malaysia report foresees potential for over 100 new routes within Malaysia and the region



Photo: Embraer E195-E2 aircraft

In conjunction with its participation of the Selangor Aviation Show, Embraer released its Malaysia report which shows how regional jets can enable the opening of over 100 new routes within Malaysia and the region. "As travel demand recovers, we see unique opportunities for Malaysia to enhance its connectivity domestically and regionally. However, it must also make business sense for airlines," said Raul Villaron, Asia Pacific Vice-President for Embraer Commercial Aviation. "Airlines are facing tough challenges such as higher fuel prices and an increasingly competitive operating environment, making it imperative to right-size aircraft capacity to passengers." Embraer also identifies the need for 150 new aircraft under 150 seats over the next 20 years in Malaysia. Regional aircraft of this size

will complement larger aircraft prevalent in the country and enhance the viability of establishing new routes or increasing the frequency of existing routes. This includes the boosting of direct connectivity within Peninsula Malaysia, as well as connectivity between cities in Peninsula Malaysia to Sabah and Sarawak. Regional jets like Embraer's E-Jets E2 family of aircraft (the E190-E2 and E195-E2) possess ideal attributes that enable airlines to grow their route network, and to drive passenger traffic to its hubs. The E2 has up to 25% reduced trip cost than a new-generation narrow-body aircraft commonly seen in Malaysia while maintaining seat cost parity, and this will improve the competitiveness of an airline. Embraer's E-Jets have been a prominent feature at major air hubs across the world. Airlines such as KLM, Lufthansa, British Airways, Japan Airlines and all major US carriers have deployed the E-Jets to grow their routes and to feed traffic to their air hubs. Regional airlines across the globe, including Bamboo Airways in Vietnam also operate E-Jets to establish routes to and from secondary and tertiary cities.

Second fully outfitted Gulfstream G700 production-test aircraft takes to the skies

Gulfstream Aerospace Corp. has reported that the second fully outfitted Gulfstream G700 production-test aircraft has flown. The aircraft joins the first outfitted G700, which has already set eight international city-pair speed records. The second G700 test aircraft will ensure the maturity, durability and comfort of more cabin elements that were introduced with the aircraft's launch in 2019, including the all-new ultra-high-definition dynamic circadian lighting system, an optional feature capable of replicating sunlight. The Gulfstream-designed system mixes warm white, cool white and amber LED lights and spans from 0.01 brightness to 100%, allowing it to simulate sunrise to sunset. The lighting can also be programmed individually for each cabin zone, tailored to passenger preferences and specific activities, such as dining or working. The latest outfitted G700 aircraft also provides a grand suite including a six-place dining area with a fully expandable self-contained table and newly designed spacious lavatory with natural light, full vanity and shower.



Second Gulfstream G700 test aircraft-interior

Photo: Gulfstream

MRO & PRODUCTION NEWS

Rolls-Royce breaks ground at French production support centre for Pearl 10X

Rolls-Royce has announced that it has broken ground on the construction of a brand-new production support for its Pearl 10X engine. The 2,000 ft² facility is located at Le Haillan, near Bordeaux, France. Currently the 10X will be found exclusively on the new twin-engine Falcon 10X flagship Dassault ultra-long-range business jet which will have a top speed of Mach 0,925 and a range of 7,500 nautical miles (13,900 km). The jet is due to enter into service in 2025. Construction of the new unit will commence later this year and will house offices, a workshop and warehouse. It is anticipated the new centre will be completed in the first half of next year. The facility will become part of the global Rolls-Royce support network and will be complemented by the powerful customer service infrastructure of more than 75 Authorised Service Centres, by On-Wing Services specialists in the U.S.A., Europe, Middle East and Asia as well as a number of spare parts, lease engine and storage locations, all placed strategically around the world. "While the Pearl 10X engine development programme for the Dassault Falcon 10X is making

Airbus partners with Hiratagakuen to develop advanced air mobility services in the Kansai region



CityAirbus NextGen

Photo: Airbus

Airbus is partnering with Japanese helicopter operator Hiratagakuen to develop advanced air mobility services in the Kansai region and beyond. This is a key addition to the company's strong regional footprint and growing international network to pioneer the future of mobility. Through this agreement, Airbus and Hiratagakuen will tackle crucial aspects required to launch a commercial transportation service with CityAirbus NextGen. As a major first step, the partners' joint project to organise a simulation of ideal routes, concepts of operations and necessary equipment for safe eVTOL flights in the Kansai region, has been selected by the Osaka prefecture, with a demonstration flight scheduled for later this year. With the aim to implement air mobility services beyond urban environments, the joint work of Airbus and Hiratagakuen will support the development of advanced air mobility solutions with CityAirbus NextGen, for use cases ranging from air medical services to commercial air transport and ecotourism in a variety of operational contexts. To reach this objective, and with the support of local stakeholders, Airbus and Hiratagakuen will use an H135 helicopter to test advanced navigation and communication technologies for safe operations of eVTOLs in urban environments, while simulating CityAirbus NextGen's flight configuration. Hiratagakuen is a Kansai-based helicopter operator specializing in Helicopter Emergency Medical Services (HEMS), transportation of personnel, flight training, and maintenance. The company's current fleet includes 14 H135 and two H145 helicopters.

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MRO & PRODUCTION NEWS

good progress, we are already working in parallel on establishing the infrastructure to support Dassault's flight test activities and its production line," said Dr Philipp Zeller, Senior Vice President of the Pearl 10X programme.

Ricardo invests in new aerospace centre in Quebec, Canada

Ricardo, a global strategic, environmental and engineering consulting company, has announced the opening of an aerospace centre of excellence in Quebec, having successfully expanded its capabilities and secured several new contracts for aerospace customers in North America. The new office will initially be home to around 25 engineers and experts, who will build on Ricardo's strong heritage and existing specialist knowledge in automotive and industrial technologies to meet the needs of customers in the aerospace sector. As a Ricardo global centre of excellence for aerospace, the office will focus on growing the company's expertise in Canada and serving its customers globally. The opening of the new office follows the announcement in July that Ricardo had signed a multi-year deal with Pratt & Whitney Canada to support the development of advanced hybrid-electric propulsion technologies for next-generation aircraft. It will also enable Ricardo to serve its customers better locally and expand its delivery of policy, strategy, technology implementation and consultancy services across North America.

GE Aviation opens new Asia-Pacific service centre in Australia

GE Aviation has opened a new state-of-the-art facility in Australia to provide maintenance, repair and overhaul services for customers across the Asia-Pacific region. The new US\$8 million Asia-Pacific service centre at Brisbane Airport positions GE Aviation to support more customers and expand its presence across the region. The new facility will be the largest GE Aviation, Systems service centre in the Asia-Pacific region. The facility supports avionics, flight management, electrical power and DOWTY propeller systems on various aircraft including the Boeing 737 and 787, Q400 and F-50 regional aircraft and the Royal Australian Air Force's fleet of C-130J Super Hercules and C-27J Spartan military transport aircraft.

MRO Insider amplifies FBO network in Mexico

MRO Insider has announced the addition of 51 FBOs to the platform's latest price-quoting feature, bringing the total number of FBOs to 68 since going live in 2022. Through the MRO Insider platform,

AMP Aero Services secures three-year consignment agreement from Air Arabia



Air Arabia Airbus A320

Photo: AirTeamImages

Global Aftermarket material solutions provider AMP Aero has been awarded a three-year CFM56-5B and -7B engine material consignment agreement from Middle Eastern Air Arabia Airlines. AMP Aero finalised the agreement last month. A key factor in receiving this agreement was demonstrated performance with other Airbus A320 airline operators in the region. "AMP Aero is growing and the demand for material from our customers continues to increase.

This agreement will not only help Air Arabia return cash to their bottom line but also help support our global customers," said Ambalik Agar, Managing Member. "The Air Arabia fleet consists of 52 new Airbus A320's and four A321neo long-range aircraft.

Collins Aerospace opens US\$18 million Ram Air Turbine wind tunnel test facility in Rockford, IL

Collins Aerospace has opened a new US\$18 million (£15.5 million) wind tunnel for its Ram Air Turbine product family at the company's Electric Power Systems facility in Rockford, Illinois. With fully automated state-of-the-art technology and enhanced quality via real-time data analytics, the new wind tunnel will streamline the Ram Air Turbine testing and certification process for Collins' airframer customers. Designed to serve as the small but mighty heart of an aircraft's emergency power system, Collins' Ram Air Turbine deploys from the wing or fuselage if a plane loses power in flight. By rotating its small turbine, the system extracts sufficient power from the airstream to allow the pilot to land the aircraft. The new wind tunnel will use a powerful fan to create a wind-speed of up to 170 knots to simulate an in-flight power loss during the testing process. It will have the ability to test Collins' full range of Ram Air Turbines for business, regional, single-aisle, wide-body and military aircraft. The new facility will complement the plant's two existing wind tunnels, increasing the site's overall testing capabilities and providing greater flexibility to meet customer demand. Since Collins' largest Ram Air Turbines can weigh up to 400 pounds, the new wind tunnel design will also make it easier for employees to mount and test them more ergonomically.



Photo: Collins Aerospace

Real Alpha Flight will deliver fuel, handling, permits, and other services to flight departments traveling in the region. Andy Nixon, President of MRO Insider states, "Our team in Mexico has done a fantastic job of onboarding participating FBOs in the region," adding, "the business leaders are energized by the fact they no longer have to give a per-gallon kickback to contract fuel and other programmes out there, instead they will pay us a flat fee, no matter how many services the customer requests." FBOs are visible on the MRO Insider live map, giving operators visibility to the services available in each region of the world, including the option to send requests directly to the FBO or provider of their choice. FBOs are notified through e-mail and mobile push

notifications when operators are searching for fuel, hangar space, lavatory service, transportation and more within the app. "To streamline alternatives for the operator, the app request pings all FBOs on our network within 100nm of the destination", Nixon said "This allows FBOs to get in front of and possibly move the business to their ramp, driving competition between FBO chains with unlimited marketing resources," adding, "It also gives the operator a road map to the best services for that particular trip." The FBO responds within the app directly to the operator. Pricing, customer reviews, and other pertinent details are included from the FBO. The average response time through the MRO Insider platform is less than ten minutes, which may include a quote or a message from the FBO.

FINANCIAL NEWS

HEICO Corporation acquires majority of growing niche technology component maker

HEICO Corporation has announced that its Electronic Technologies Group has acquired approximately 80% of the capital stock of technology component company Ironwood Electronics (Ironwood) for cash paid at closing, plus an additional cash consideration to be paid if Ironwood meets certain earnings targets. The balance of Ironwood's shares will continue to be owned by Ironwood's Chief Executive Officer, David Struyk, and other key managers. Further financial information was not disclosed. HEICO stated that it expects the acquisition to be accretive to its earnings within the year following acquisition. Founded in 1986, Ironwood is a leading designer and manufacturer of high-performance test sockets and adapters for both engineering and production use of semiconductor devices. Its products are utilized by, among others, semiconductor designers and manufacturers for critical validation and testing, as well as additional applications. Ironwood's sockets and adapters are also used by technology

MRO & PRODUCTION NEWS

LHT signs five-year Total Component Support contract with Smartwings



Boeing 737NG aircraft

Photo: Smartwings

Czech airline Smartwings and Lufthansa Technik (LHT) have signed a five-year comprehensive Total Component Support (TCS®) contract covering repair and overhaul of components for the airline's fleet of 30 Boeing 737NG aircraft. Support for the aircraft has already started. With the TCS® agreement, Smartwings benefits from an individual supply concept that enables short and rapid transport paths. The new contract includes component MRO services and pool access as well as component delivery to selected international airports within Europe. Lufthansa Technik already provides comprehensive engine services for Smartwings' CFM56-7B powered Boeing 737NG-fleet as well as TCS services for Smartwings' B737 MAX 8 aircraft.



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FINANCIAL NEWS

and electronics designers and producers for both development and production purposes in their systems.

Allegiant repays its obligations under the CARES Act Payroll Support programme

Allegiant has reported that it has repaid the US\$24.8 million (£21.6 million) emergency relief loan the company received under the Coronavirus Aid, Relief and Economic Security (CARES) Act in April 2020. The government assistance, coupled with proactive initiatives from Allegiant and its employees, allowed the airline to preserve liquidity and strategically position itself to withstand the uncertainty surrounding the outbreak of COVID-19. Allegiant's unique business model, focused entirely on leisure travel, helped the company respond to the unprecedented challenges that the entire airline industry faced when demand for air travel dropped so suddenly and precipitously in 2020, as a result of the global pandemic. The CARES Act, signed into law in April 2020, established the Payroll Support Program to provide assistance to U.S. companies that were impacted by the global pandemic. The funds helped Allegiant support the airline's employee salaries and benefits.

Safran looks to acquire Thales' aeronautical electrical systems activities and expand role in electrical power generation

International high-technology group Safran Electrical and Power (Safran) has announced its intention to acquire Thales aeronautical electrical systems business which plays a role in power generation and electric motors in the civil and military aeronautics sector. The intended purchase will include Thales Avionics Electrical Systems and Thales Avionics Electrical Motors companies in France, with sites in the Paris region in Chatou, Meru, and Conflans-Sainte-Honorine, as well as the support, maintenance and production activities for aeronautical electrical equipment in Orlando (USA) and Singapore. The acquisition will see Safran Electrical & Power pursue its strategy as an equipment manufacturer positioned across the whole electrical chain. The electrical conversion business will make a significant contribution to Safran's portfolio of activities, which would expand further in the area of electrical power generation, particularly in the defence and helicopter markets. For Thales, the proposed sale to Safran forms part of the Group's strategy to refocus on its core businesses in aerospace, defence and security, and digital identity and security. The proposed transaction is subject

MRO & PRODUCTION NEWS

Rolls-Royce and Air China to form joint venture for new MRO facility in Beijing



Photo: Rolls-Royce

Rolls-Royce and Air China have entered into a new 50/50 joint venture (JV) maintenance, repair and overhaul (MRO) facility in Beijing, China. The new facility, BAESL (Beijing Aero Engine Services Company Limited), will provide MRO support on the Rolls-Royce Trent 700, Trent XWB-84 and Trent 1000 aero engines. Air China currently has all three engine types in its fleet. At full capacity, which is expected to be achieved in the mid-2030s, BAESL will be able to support up to 250 shop visits per year. The facility will offer MRO services to Air China as well as Rolls-Royce's other airline customers based in Greater China and beyond. Today, Rolls-Royce powers 60% of China's wide-body fleet, powering more than 550 aircraft in service or on order. Its Trent 700 engines also power 90% of the country's Airbus A330 fleet and the Greater China fleet represents 20% of all Trent engines flying today.

MILITARY AND DEFENCE

Embraer concludes flight tests for firefighting capability for C-390 Millennium

Embraer has successfully completed the flight test of the certification campaign for the Modular Airborne Fire Fighting System (MAFFS II), which provides the C-390 Millennium with the required capability to perform firefighting missions. The tests, carried out at the Embraer facility in Gavião Peixoto, São Paulo State, in Brazil, represent an important advancement in the certification campaign of this capacity by the Brazilian Military Certification Authority (IFI). After



C-390 aerial firefighting operation

Photo: Embraer

certification, the firefighting capability will be available to aircraft operators. The MAFFS II is a firefighting system capable of deploying up to 3,000 gallons of water (approximately 11,300 litres), both with and without fire retardant, according to the standard ground cover level criteria and in various types of terrain. Designed to interface with the aircraft's cargo handling system (CHS), the MAFFS II is rapidly installed on the cargo compartment of the airplane, using only its own trailer. The system requires only aircraft power to operate. The conclusion of these tests, which included several in-flight water-drops, proved the system's ability to integrate with the aircraft, and demonstrated excellent aspects of flight quality and manoeuvrability, which are extremely necessary for this type of operation at low speeds.

FINANCIAL NEWS

to the information and consultation procedure with the relevant employee representative bodies of Thales and Safran, as well as the usual regulatory approvals. The transaction is expected to conclude in 2023.

MILITARY AND DEFENCE

Rolls-Royce receives U.S. military contracts valued at US\$1.8 billion

The U.S. Department of Defence has awarded two contracts, valued at over US\$1.8 billion over the next five years, for Rolls-Royce to service engines for U.S. Navy and Marine Corps aircraft. The contracts show continued confidence in Rolls-Royce and its defence services, which support multiple U.S. and allied military fleets around the world. One contract includes intermediate, depot-level maintenance and logistics support for over 200 Rolls-Royce F405 engines that power U.S. Navy T-45 flight trainer aircraft. The contract is based on availability metrics, providing engines as needed to facilitate training Naval and Marine aviators. The work will be performed primarily at Naval Air Stations in Meridian, Mississippi, and Kingsville, Texas. The contract is valued at up to US\$1.013 billion, spanning five years. The other contract includes depot-level engine repair services for Rolls-Royce AE 2100D3 turboprop engines powering C-130J and KC-130J transport aircraft flown by the U.S. Marine Corps and the government of Kuwait. The contract is valued at US\$854 million over the next five years, with the work performed at multiple sites in the U.S., Canada and Portugal. (£1.00 = US\$1.15 at time of publication).

INFORMATION TECHNOLOGY

Ethiopian Airlines, the largest carrier in Africa, and **Travelport**, a global technology company that powers bookings for hundreds of thousands of travel suppliers worldwide, have announced a new agreement. The renewed deal includes distribution on the Travelport+ platform and expands the ongoing travel retailing and distribution relationship between Travelport and Ethiopian Airlines. Once the airline makes content via NDC distribution available, both companies will work together to provide agents with access to NDC content and functionality from Ethiopian Airlines in the Travelport+ platform. As part of the agreement, Ethiopian Airlines will become a new participant in Travelport's Rich Content & Branding (RC&B) programme. As a top 100 carrier booked through Travelport, the carrier is laying the foundation to ensure that Travelport-connected agencies can access the most robust, enriched Ethiopian Airlines' content following its current fleet expansion.

MILITARY AND DEFENCE

Airbus and HeliDax sign first HCare Classics support contract to cover fleet of 36 H120s

French helicopter operator HeliDax and Airbus Helicopters have signed the first-ever HCare Classics support contract to optimise the availability of HeliDax's H120 fleet. HCare Classics is Airbus' new support package entirely dedicated to meet-



H20 helicopter

Photo: HeliDax

ing the support needs of the company's out-of-production legacy helicopters. An H120 operator since 2008, HeliDax relies on its fleet of 36 H120s to provide basic and advanced training to the French and Belgian armed forces and the French Gendarmerie. Since the beginning of this partnership with the French government 14 years ago, HeliDax has maintained an availability level of 100% and has accumulated 246,000 hours of H120 flight time, training multiple generations of helicopter pilots. This translates to as many as 22,000 flight hours per year. HeliDax's fleet is the largest in-service H120 fleet in the world today. With eight years remaining in the pilot training programme contract, HeliDax selected HCare Classics to benefit from the OEM's guaranteed support performance.

INFORMATION TECHNOLOGY



VoloConnect

Photo: Volocopter

Austrian software company **ASQS GmbH**, the global provider of aviation safety and quality management solutions, has announced it is joining forces with **Volocopter**, the German Urban Air Mobility (UAM) pioneer. Through the integration of ASQS' IQSMS quality and safety management system,

Volocopter is looking to create a proactive safety culture in all its areas of operation. Founded in 2011, Volocopter is the first and only eVTOL developer to receive both Design Organization Approval (DOA) and Production Organization Approval (POA) from the European Aviation Safety Agency (EASA), enabling the company to design and produce electric vertical take-off and landing (eVTOL) aircraft in house and to certification standards. The company's product portfolio includes sustainable, fully electric and emission-free solutions: the VoloCity air taxi for urban passenger flights, the VoloDrone for cargo transportation, and the VoloConnect for longer passenger flights between suburbs and city centres. Volocopter is developing the entire physical and digital infrastructures, including VoloPorts (eVTOL takeoff and landing points) and its urban air mobility software platform, the VoloIQ, the digital backbone of the ecosystem that connects the aircraft, ground infrastructure and air traffic management. ASQS will provide support to Volocopter on the industry's regulatory requirements. The company's web-based quality and safety management tool, IQSMS, supports more than 280 aviation companies worldwide with key features which include intuitive hazard and event reporting, internal and external auditing, and proactive and systematic risk management which, combined, enable comprehensive monitoring of all compliance and safety-related aspects of the business.

OTHER NEWS

Sabre, a leading software and technology provider that powers the global travel industry, has signed an agreement with **Malaysia Airlines** to enable the carrier to enhance its network planning and optimisation with Sabre technology as it continues to ramp up operations. The Kuala Lumpur-based carrier and Sabre have a successful, valued, long-standing relationship, having worked together for more than two decades. This latest agreement supports Malaysia Airlines' efforts to deliver robust schedules that are operationally feasible and profitable. It will use Sabre's network planning and optimisation products for critical decision support to help it to forecast schedule profitability, match capacity and demand, and improve aircraft utilisation and network connectivity. Malaysia Airlines flies an extensive route network spanning across Asia Pacific, the Middle East and the UK. With travel restrictions having eased in Malaysia earlier this year, bookings immediately surged for both inbound and outbound travel. The carrier is now firmly focused on longer-term plans including launching new routes, expanding codeshare partnerships, replacing aircraft and exploring sustainable aviation fuel options. In a further sign of the recovering premium travel sector, the airline has also re-opened its three Golden Lounges at Kuala Lumpur International Airport. The carrier has selected a full suite of Sabre scheduling solutions, made up of Schedule Manager, Fleet Manager, Profit Manager, Codeshare Manager as well as Slot Manager.

Norwegian flew 1,996,211 passengers in August, compared to 790,220 in August 2021. The load



Electric terminal tractor Terberg YT203EV

Photo: IAG Cargo

IAG Cargo, the cargo division of **International Airlines Group** (IAG) has begun to trial the first electric terminal tractor, known as a Terberg YT203EV, at London Heathrow airport. This is the first electric Terberg operating airside worldwide. By replacing an existing terminal tractor with an electric Terberg, approximately 30 tonnes of CO2 will be saved per vehicle per year – this is the equivalent of planting over 1,250 trees and taking more than 7 cars off the road. Terberg has been creating electric vehicles since 2014 with the team constantly revising the designs. The latest vehicles can deliver the same capability as the current diesel units in a more environmentally sustainable way, allowing drivers to carry out their work pattern whilst avoiding diesel engine emissions. In addition to its electric solution, Terberg is also exploring the development of hydrogen fuel cell vehicles, having placed a unit to test on an off-airfield application. This additional environmentally friendly solution will afford Terberg customers such as IAG Cargo further options to achieve their environmental goals. IAG Cargo is trialling the electric Terberg YT203EV for 12-months, with the ambition to transition its current diesel fleet to more sustainable alternatives, including electric. In the coming years the trial will help IAG Cargo and its partners understand the challenges the business may face when adopting an electric airside fleet, how future electric vehicles could be charged and what additional infrastructure will be needed to support a fleet of electric terminal tractors.

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OTHER NEWS

factor in August was 85.5%. The capacity (ASK) was 2,998 million seat kilometres, while actual passenger traffic (RPK) was 2,563 million seat kilometres. In August, Norwegian operated an average of 69 aircraft and 99.7% of scheduled flights were completed. Punctuality, as measured by the number of flights departing within 15 minutes of scheduled time, was at 63% in August. "The congestion at European airports has begun to improve, which is positive for our operations but also, importantly, to the travel experience of our customers. It is uplifting for the industry in general that we are continuing to return to normal operations after these extraordinary years for aviation," said Geir Karlsen, CEO of Norwegian.

Finnair carried 880,500 passengers in August 2022, which was 230.4% more than in August 2021. The number of passengers in August 2022 was 11.9% less than in July 2022. The COVID-19 impact, including the strict travel restrictions imposed by many countries, still affected passenger traffic figures, and it was particularly visible in the Asian figures. The Russian airspace closed at the end of February due to the counter sanctions related to the war in Ukraine, which resulted in route and frequency cancellations in Asian traffic. Thanks to robust demand for cargo, Finnair, however, continued operating to most of its Asian destinations despite the longer routings. Thus, the negative impact of the airspace closure on Asian passenger traffic figures, which were already affected by the pandemic, remained moderate in August. The distance-based reported traffic figures do not take into account longer routings caused by the airspace closure as they are based on Great Circle distance. The overall capacity, measured in Available Seat Kilometres (ASK), increased in August by 151.3% year-on-year but decreased by 3.4% month-on-month. Finnair operated on average, 253 daily flights (cargo-only included), which was 99.2% more than in August 2021 but 1.6% less than in July 2022. The differences between capacity figures compared to August 2021 are explained by the longer average stage length of flights operated and by the larger gauge of aircraft operated. Finnair's traffic, measured in revenue passenger kilometres (RPKs), increased by 365.0% year-on-year but decreased by 13.2% month-on-month. The passenger load factor (PLF) increased by 35.7% points year-on-year but decreased by 8.8% points month-on-month to 77.8%. The ASK increase in Asian traffic was 142.8% year-on-year. The North Atlantic capacity increased by 119.2%. In European traffic, the ASKs were up by 187.3%. The ASKs in domestic traffic increased by 53.8%. RPKs increased in Asian traffic by 853.8%, in North Atlantic traffic by 486.1%, in European traffic by 260.4% and in domestic traffic by 62.9% year-on-year. In August, the PLF improved, particularly



Releye RLP and RAP containers

Photo: Air Canada

the cargo longer than any other available solution. These containers enter service following the recent inauguration of Air Canada Cargo's new cold chain handling facility at its Toronto Pearson International Airport hub, a testament to its continued focus on strong operational integrity and continued investment in cold chain infrastructure. The Releye RLP and RAP containers are equipped with 18 integrated sensors that monitor important aspects during shipping, including their location, internal and external temperature, battery level, humidity, door openings, cargo loaded, and GPS so customers can track their shipments in real time. Air Canada is CEIV Pharma certified by IATA, which signifies that the airline meets the highest standards of safety, security, compliance and efficiency in the transport of pharmaceuticals.

Air Canada Cargo will be the first Canadian operator to use the new live monitored, temperature-controlled certified aircraft containers, the **Envirotainer** Releye RLP and larger RAP, as part of the AC Absolute solution. The Releye RLP and RAP containers are designed to meet the strictest requirements in pharmaceutical air freight. With its 170 hours of autonomy (more than one week) on a single battery charge, it will maintain the temperature and protect

Spatial, a provider of cabin crew simulators, has just completed a factory acceptance test for three training devices with representatives of the **Polish Aviation Academy**. The devices include a B787 main cabin door trainer, an EMB 170/190 main door and over-wing exit trainer and a B737 cabin emergency evacuation trainer (CEET). The devices will provide their crew with the necessary skills required to operate all doors on each of these aircraft types whilst also incorporating a number of advanced features in the B737 CEET including dynamic visuals, fire and smoke simulation and decompression scenarios. Polish Aviation Academy intends to conduct crew training for its business partners such as LOT Polish Airlines. The doors will all be equipped with the latest in visual technology to fully immerse each crew member into their individual training scenario creating an environment that not only looks real but also feels real too, the doors will also simulate all types of malfunctions to help the crew train for operations in emergency scenarios.



Cabin door training

Photo: Spatial

in Asian traffic (77.6%) and North Atlantic traffic (75.7%) year-on-year. The PLF was 79.0% in European traffic and 75.8% in domestic traffic. Passenger numbers increased in Asian traffic by 863.7% year-on-year. For North Atlantic traffic, the number of passengers increased by 475.0%. For European traffic, passenger numbers increased by 226.7% and in domestic traffic by 85.4%.

Finnair's strategy has long been based on connecting Europe and Asia via the short

northern route, using Russian air space. Following Russia's invasion of Ukraine and the subsequent closure of Russian air space, flight times to Finnair's Asian destinations are now considerably longer, weakening the profitability of the company. Finnair's new strategy aims to return to profitability regardless of closed Russian air space. As Finnair is now faced with a different competitive situation and the weight of the different markets in Finnair's business is changing, significant structural renewal is required to be competitive. "The changes in our operating

OTHER NEWS

environment require a new strategy and significant renewal of Finnair, especially related to costs", says Finnair CEO Topi Manner. "We have, however, an excellent foundation to build on: our excellent, differentiating product, strong safety culture, strong brand, our high-quality execution capabilities, our commitment to sustainability and our track record of adapting and renewing ourselves." Finnair's new strategy focuses on building a competitive airline, with the target of reaching the pre-pandemic comparable EBIT level of at least 5% from mid-2024. To reach the desired outcome, the support of all key stakeholder groups is needed. Strategy implementation starts now, and it includes discussions with all key stakeholders on the changes that are needed for Finnair to be competitive. The unit cost reduction target covers all cost categories, including personnel costs. Finnair will start discussions with employees on, for example, adjustments in employment terms and will also evaluate other measures, such as route-specific outsourcing of cabin service, potential outsourcing of certain operational activities and actions to improve the efficiency of shared functions. Savings in other costs are sought through contract negotiations with suppliers, structural changes in operations, and optimisation of premises. During the past two and half years, Finnair has undergone a major transformation to make itself a way out of the COVID-19 crisis through a series of determined measures, including personnel reductions, cash preservation through furloughs, contract amendments and temporary labour agreement amendments with employee unions, a €500 million rights issue, sizeable loans and the successful completion of a €200 million cost savings programme. (£1.00 = €1.16 at time of publication).

INDUSTRY PEOPLE



Greg Diognard

- Spirit Aeronautics, a leading Avionics solutions provider for business, special missions, and military aircraft, has appointed **Greg Diognard** as its new Regional Sales Manager for the Southern half of the United States. He will provide outside sales support for new avionics upgrades, cabin management systems and extended warranty protection programmes such as HAPP & CASP. Diognard served in the

U.S. Airforce as Crew Chief on the F111E aircraft and earned his Bachelor of Science degree in Industrial Technology and AAS in Aircraft Maintenance. His previous employment includes ATP/Flightdocs as a Director of Sales, Technical Sales Manager at Standard Aero and Northeast MRO Sales Manager at Landmark Aviation.

- Falko Regional Aircraft Limited (Falko), an aircraft asset management company focused on the regional aircraft sector, has established a dedicated team to manage and grow its aircraft trading activities. The team will focus on nurturing its relationships with aircraft lessors and financial buyers to further deepen the secondary market for regional aircraft. The team will be led by **Kenton Walsh** as Head of Trading, who has been with Falko in various senior commercial and origination roles since the inception of the Falko business in 2011. **Marcus Rowley** will also transfer to the team as Vice President, Trading bringing substantial additional experience to the team. Falko was formed in July 2011 through the purchase of BAE Systems Asset Management and its associated aircraft portfolio. In May 2022, Chorus Aviation completed the acquisition of Falko and equity interests in 128 aircraft managed by Falko. Headquartered in Halifax, Nova Scotia, Chorus is an integrated provider of regional aviation solutions, including asset management services.



Victoria Foy

- Effective January 1, 2023, **Victoria Foy** will become President of Safran Seats, succeeding **Vincent Mascré**, who is retiring. Foy will also join Safran's Executive Committee. Between now and the end of the year, VFoy will participate with Vincent Mascré in the key business milestones of Safran Seats. She has held a number of Board-level positions working in worldwide operations. She joined Safran Nacelles in 2012 as UK Finance Director before taking the role of UK Managing Director in June 2016. In 2019, she joined Safran Seats and was appointed EVP for Safran Seats GB, January 1, 2020.

- American Airlines Group has elected **Vicente Reynal** to its board of directors.



Vincent Reynal

Reynal currently serves as Chairman, President and CEO of Ingersoll Rand, a global provider of mission-critical flow creation and industrial solutions. He has served as President and CEO of Ingersoll Rand since March 2020, when he led the transformational merger between Gardner Denver and the Industrials Segment of Ingersoll Rand. He was named Chairman of the company in November 2021. "We are very excited to welcome Vicente to American's Board of Directors," said American's Chairman Doug Parker. "Vicente has extensive experience leading global industrial businesses, and his proven ability to navigate complex operational issues and create shareholder value will be important assets to American and our board."

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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
A319-112	Deucalion Aviation Limited	CFM56-5B63	3586	2008	Now	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	Now	Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
A320-200	BBAM	CFM56-5B4/3	6467	2015	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
A320-200	ORIX Aviation	CFM56-5B4/3	4714	2011	Q3/2023	Lease	Oisín Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A320-200	ORIX Aviation	CFM56-5B4/P	2620	2005	Q2/2023	Lease	Oisín Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A320-233ceo	FPG Amentum	V2527E-A5	4457	2010	Now	Sale / Lease	Lei Ma	ma.lei@fpg-amentum.aero	+852 9199 1875
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	Deucalion Aviation Limited	CF6-80E	814	2007	Now	Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
A330-200	Doric	Trent 772B-60/16	1407	2013	Q4/2022	Sale / Lease	Maurick Groeneveld	maurick.groeneveld@doric.com	+49 (0)69 247559931
A330-200	GA Telesis	PW4168A	322	2000	Jul 2022	Sale / Lease	David Byrne	aircraft@gatelesis.com	+353 86 780 8974
A330-300	BBAM	Trent 772B-60	1633	2015	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	Trent 772B-60	1482	2014	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
A330-300	ALTAVAIR	PW4168A	333	2000	Q4/2022	Sale / Lease	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493
B737-700	BBAM	airframe only	32414	2003	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B737-800	BBAM	CFM56-7B26/3	29637	2009	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B737-800	ORIX Aviation	CFM56-7B26/3	35216	2007	Now	Lease	Oisín Riordan	oisin.riordan@orix.ie	+353 86 335 0004
B737-800	ORIX Aviation	CFM56-7B24E	40318	2012	Now	Lease	Oisín Riordan	oisin.riordan@orix.ie	+353 86 335 0004
B737-900	BBAM	CFM56-7B26/3	34953	2007	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B757-200 Cargo	Airwork Ireland Limited	RB211-535E4	27051	1995	Now	Lease	Robbie Brazel	robbie.brazel@airworkgroup.com	+353 87 372 8262
B757-200 Cargo	Airwork Ireland Limited	RB211-535E4	25297	1992	Q4/2022	Lease	Robbie Brazel	robbie.brazel@airworkgroup.com	+353 87 372 8262
B737-900ER	Deucalion Aviation Limited	CFM56-7B26	35712	2007	Now	Sale / Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
B737-900ER	Deucalion Aviation Limited	CFM56-7B26	35717	2007	Now	Sale / Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
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	GE90-115BL	38407	2011	Mar 2023	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B777-300ER	ALTAVAIR	GE90-115BL	29146	2013	Now	Sale / Lease	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493
B777-300ER	ALTAVAIR	GE90-115BL	29147	2013	Now	Sale / Lease	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493
B777-300ER	ALTAVAIR	GE90-115B	34600	2006	Now	Sale / Lease	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493
B777-300ER	ALTAVAIR	GE90-115B	39700	2009	Now	Sale / Lease	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493
(6) B777-300ER	ALTAVAIR	GE90-115B	various	12-13	Now	Sale / Lease	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493



THE AIRCRAFT AND ENGINE MARKETPLACE

Regional Jet / Turboprop Aircraft

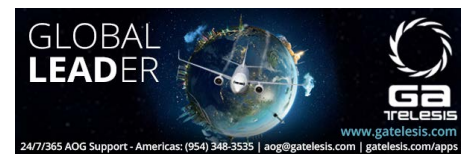
Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
CRJ-200	Regional One	CF34-3B1	7925	2004	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ-200	Regional One	CF34-3B1	7926	2004	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+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	Now	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

AE3007 Engines	Sale / Lease	Company	Contact	Email	Phone
(2) AE3007A1E	Now - Lease	Aircraft and Engine Lease Corp.		fleetmanager@aalc.aero	
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) CF34-10E6	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(2) CF34-10E7	Now - Lease				
(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
(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) CFM56-5B3/3	Now - Lease	FTAI Aviation LLC	Mark Napoles	mnapoles@ftaiaaviation.com	+1 786-785-0777
(1) CFM56-5B4/P	Now - Lease				
(1) CFM56-5B3/P	Now - Lease				
(1) CFM56-5B1/P	Now - Lease				
(1) CFM56-7B24	Now - Lease				
(1) CFM56-7B26	Now - Lease				
(3) CFM56-7B24/3	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(2) CFM56-7B24/E	Now - Lease				
(1) CFM56-7B26	Now - Lease				
(1) CFM56-5C4/P	Now - Lease				
(1) CFM56-7B26/3	Now - Lease				
(1) CFM56-7B24	Now - Lease				
(2) CFM56-5C4	Now - Lease				
(2) CFM56-7B26E	Now - Lease				
(2) CFM56-5B5/P	Now - Sale / Lease	BBAM	Steve Zissis	info@bbam.com	+1 787 665 7040
(1) CFM56-5B4/P	Now - Sale / Lease				
(2) CFM56-5B6	Now - Sale / Lease				
(1) CFM56-5A3	Now - Sale	Royal Aero	Gary MacLeod	gary@royalaero.com	+44 (0)1357 521144
(1) CFM56-5B2/P	Now - Sale/Lease/Exch.	Contrail Aviation Support	Mark Shaw	mark@contrail.com	+33 6 5834 1965
(2) CFM56-7B22	Now - Lease	Deucalion Aviation Limited	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
(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) CFM56-5B3/P	Now - Sale	FL Technics	Modestas Valiusevicius	m.valiusevicius@fltechnics.com	+370 5 252 5015
(1) CFM56-5B6/3	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
(1) LEAP-1A35	Sep-15-2022 - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(2) LEAP-1A28	Sep-15-2022 - 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) PW4168	Now - Sale / Lease	Castlelake	Graeme Dodd	Graeme.dodd@castlelake.com	+44 207 190 6138
(2) PW4168A	Now - Sale / Lease	GA Telesis		engines@gatelesis.com	
(2) PW4168A	Q4/2022 - Sale	ALTAVAIR	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493
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) PW123	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	leasing@willislease.com	+1 (561) 349-8950
(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	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	RRPF Marketing	RRPFMarketing@rolls-royce.com	+44 7528975877
(1) Trent XWB-84	Now - Sale/Lease/Exch.				
(1) Trent 556-61	Now - Sale/Lease/Exch.				
(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
(1) V2527-A5	Q3/2022 - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	RRPF Marketing	RRPFMarketing@rolls-royce.com	+44 7528975877
(1) V2533-A5	Now - Sale/Lease/Exch.				
(4) V2533-A5	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(2) V2527-A5	Now - Lease				
(2) V2527-A5	Now - Sale / Lease	Castlelake	Graeme Dodd	Graeme.dodd@castlelake.com	+44 207 190 6138
(1) V2533-A5	Now - Lease	FTAI Aviation LLC	Mark Napoles	mnapoles@ftaiair.com	+1 786-785-0777
(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				
(4) 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 Trent 892B-17 Modules	Now - Sale / Exchange	Centaurus Services/MASB	Paul Bithavas	paul.bithavas@centaurus.services	+61 408 389 241
(2) GTCP331-200ER, (2) GTCP131-9A, (1) GTCP131-9B (1) A321 Enhanced Landing Gear 2020 OH	Now - Sale	Setna IO	David Chaimovitz	david@setnaio.com	+1-312-549-4459
(2) A320, (2) A330, (1) A340 Landing Gear Shipsets (1) A320 ENH NLG		GA Telesis		landinggearsales@gatelesis.com	
GTCP131-9A (2), GTCP131-9B(2) GTCP331-200, GTCP331-250 APS500C14(3), APS1000C12(2), APS2000 APS2300, APS3200(2), APS5000(2) PW901A(4), PW901C(2) TSCP700-4E	Now - Lease Now - Lease Now - Lease Now - Lease Now - Sale / Lease Now - Sale	REVIMA APU	Olivier Hy	olivier.hy@revima-apu.com	+33(0)235563515
(1) RE220, (1) APS3200, (1) GTCP131-9A (1) GTCP131-9B, (1) GTCP331-500B	Now - Sale / Lease Now - Sale / Lease	Magellan Aviation Group	Drew Megorden	drew.megorden@magellangroup.net	+1 704-340-0273
(1) GTCP331-500B (2) APS2300, (1) GTCP131-9B (1) APS3200	Now - Sale/Lease/Exch. Now - Sale / Lease	BBAM DASI	Steve Zissis Chris Glascock	info@bbam.com chris.glascock@dasi.com	+1 787 665 7039 +1 954-801-3592
((1) GTCP331-200ER, (2) RE220RJ (2) GTCP36-150RJ	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 954-683-1893
Neutral V2500-A5 QEC Kits (2) 745K9001-64 (4) GTCP131-9A, (4) GTCP131-9B (2) GTCP331-350, (2) GTCP331-500, (1) APS3200B, (2) APS3200C Engine stands: CF6-80C2, CFM56-3, CFM56-5A/B/C, PW4000	Now - Sale 	ASI Aero GA Telesis	Dean Morgan Jay Meshay	deanm@asiaero.net apu@gatelesis.com	+1 561-771-4253 +1-954-849-3509
(3) APU GTC131-9B, (1) GTCP331-500B Engine stands now available	Now - Sale / Lease Now - Lease	Willis Lease	Gavin Connolly	gconnolly@willislease.com	+44 1656 765 256
(2) PW901A, (1) PW901C(1), PW125B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368



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