

Weekly Aviation Headline News

WORLD NEWS

Westbound transatlantic air cargo demand is up 6%.

Despite high inflation and falling US retail sales, westbound air cargo volumes between Europe and North America rose 6% year-on-year in January but overall global air cargo demand continued to fall, down -8%, as an earlier Chinese New Year and economic headwinds subdued other major lanes, according to the latest weekly market intelligence from CLIVE Data Services. The Europe to North America corridor stood out in terms of growth in January, although its average spot rate of USD 3.09 per kg edged down 4% from last month. However, compared to the shrinking volume on ex APAC and inbound Europe trades, transatlantic westbound demand remained buoyant.

American Cargo transitions to biodegradable plastic wraps

American Airlines Cargo announced its transition to BioNatur Plastics™, launched by M&G Packaging, for use in its cargo operations. The carrier has already begun replacing its current plastic products with the BioNatur brand across most major hubs, an adoption that has allowed American to reduce its long-term plastic waste in landfills by more than 130,000 lbs. or 6.4 million water bottles, in 2022 alone. BioNatur Plastics is a growing line of biodegradable plastic products manufactured with proprietary formulations that make them the most sustainable plastic options available.

British Airways resumes Chinese mainland services

After a two-year absence, British Airways has announced it will resume flights between the UK and mainland China. The UK airline plans to restart operations to Shanghai from 23 April and Beijing from 3 June. British Airways first flew to China in 1980 and continued to do so until the pandemic. From 23 April, flights will operate daily between London Heathrow and Shanghai and four times per week between Heathrow and Beijing.



1,574 Boeing 747s were built from 1969.

© Boeing

Aviation industry bids farewell to an icon

As the Boeing 747 marks its spot in history

January 31, 2023, marked a major milestone in the aviation industry with the last ever delivery of a Boeing 747 aircraft. The 747-8F delivered to Atlas Air was the last of four new freighters the carrier ordered in January 2021.

AviTrader Weekly, takes a brief look back at the long career of the iconic 747.

The first Boeing 747-100 made its first flight on February 9, 1969, with the first revenue service taking place with

launch customer Pan Am operating the popular New York–London route. By 1980, 500 747s had rolled out of the famous Everett, Washington factory.

Data from the aviation analytics firm *Cirium* reveals that 1,574 Boeing 747s were built (one was not delivered and went to a museum). While four 747s were delivered in 1969 for crew training, entry into service with Pan-Am

took place in 1970.

Boeing continued to improve on the original design with models like the 747-400 in 1988 and the final 747-8 model that was launched in 2005. The 747-8 programme was launched with an order of 18 freighters from Cargolux and Nippon Air Cargo. Lufthansa

of four 747-8 Freighters.

Atlas Air will operate this last aircraft for Apex Logistics, a Kuehne+Nagel company, under a long-term agreement. “Our company’s history and success are directly linked to the 747 platform, and we are honoured to continue our long history of flying

this iconic aircraft for our customers around the world,” said John Dietrich, President and CEO at Atlas Air Worldwide.

“As the world’s largest operator of 747 freighters, Atlas is especially proud to take the last 747 ever to be built.”

John Dietrich, Atlas Air

was the first carrier to order the 747-8 intercontinental passenger variant in 2006.

By June, 2014, Boeing had delivered its 1,500th 747 to Lufthansa and in 2019 celebrated the 50th anniversary of the first 747-100 flight. In 2020, Boeing announced the end of 747 production by the end of 2022 due to market preferences and Atlas Air would be the final 747 customer with an order

Mr. Dietrich concluded: “As the world’s largest operator of 747 freighters, Atlas is especially proud to take the last 747 ever to be built. We are grateful to Boeing for their shared commitment to safety, quality, innovation and the environment, and for their partnership to ensure the continued success of the 747 programme as we operate the aircraft for decades to come.”

AIRCRAFT & ENGINE NEWS

SkyWorks reports fourth-quarter 2022 activities

SkyWorks Holdings has released transactions and activities performed during the fourth quarter of 2022 for its Leasing and Asset Management and Investment Banking & Advisory Groups. Leasing & Asset Management Group activities included the following: On behalf of an institutional investor client, SkyWorks arranged the lease extension of two Airbus A319-100 aircraft on lease to American Airlines and arranged the sale of two Boeing 737-700 aircraft on behalf of a U.S.-based investor, on lease to a U.S. network carrier. SkyWorks concluded its role as backup-servicer for a large financial institution in respect of certain portfolio assets. Investment Banking & Advisory Group activities included the following: SkyWorks was retained by a North American low-cost carrier to provide fleet-related advisory services in respect of a prospective aircraft order. The company completed an assignment acting as an advisor to Southwest Airlines with respect to the buyback of 39 Boeing 737-700 aircraft on lease with AerCap. Furthermore, SkyWorks completed an assignment on behalf of a leading lessor client, which has resulted in purchase agreements with CFM and Pratt & Whitney with respect to engine selection for its A320neo-family aircraft order book. The company completed an assignment with a North American network carrier on which it advised on fleet-related matters. SkyWorks completed the sale-and-leaseback financing programme for Spirit Airlines' 2023 Airbus A320neo deliveries encompassing 17 aircraft in total. SkyWorks and Spirit closed on lease agreements with Orix Aviation, Fuyo General Lease and ICBC Aviation Leasing. The company has been engaged to arrange Spirit's 2024 sale-and-leaseback programme. SkyWorks continued to provide aircraft and engine sourcing advisory services for Airbus A320neo and Embraer E2- family aircraft to an EMEA flag carrier.

MRO & PRODUCTION NEWS

Iberia Maintenance and RwandAir sign multi-year maintenance contract



© Iberia Maintenance engine shop

Iberia Maintenance and RwandAir have signed a multi-year exclusive contract to maintain the CFM56-7B and 7BE engines powering the airline's Boeing 737 fleet. Iberia Maintenance was selected by RwandAir following a rigorous process, with a proposal deemed to be the most competitive, including engine lease, logistics and customised work scope utilising the Spanish company's engineering expertise. Iberia Maintenance's engine shop, located in Madrid, is specialised in CFM56, V2500 and RB211 engines and provides services to a worldwide customer base of airlines, OEMs and the wider industry. Operating from Kigali, RwandAir is one of the world's fastest-growing airlines and operates one of the youngest state-of-the-art fleets on the African continent, operating 12 aircraft with an average age of just under six years. The airline currently offers services to 25 destinations across 21 countries throughout Africa, Europe, the Middle East and Asia.

FL Technics extends Part-CAMO capabilities to meet future demand of MRO industry

FL Technics, a global provider of aircraft maintenance, repair, and overhaul (MRO) services, has received certification update with extended CAMO (continuing airworthiness management organisation) capabilities to service Airbus A220, and Boeing B737-MAX and B787 aircraft. The new approval is the result of rigorous FL Technics development in 2022 focused on industry trends related to efficiency and environment. With next-generation aircraft fleets targeting sustainable operations and environmental footprint reduction, maintaining these new aircraft airborne requires new specific knowledge and capabilities, which takes a lot of effort to acquire.



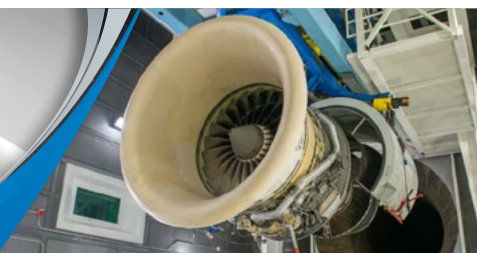
FL Technics extends Part-CAMO capabilities

Photo: Airbus

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MRO & PRODUCTION NEWS

GA Telesis' FSG continues USM market growth following disassembly of PW4168 engine

GA Telesis has kicked-off the new year with the disassembly of a Pratt & Whitney 4168 engine. The engine is a part of a lease return pool sourced from the company's Asset Transaction Group. It will be managed by GAT's Flight Solutions Group (FSG) for disassembly and redistribution. Following the dismantling and repair, the used serviceable material (USM) will be made available to GA Telesis' airline and MRO customers worldwide in the coming months. This new inventory represents a significant expansion of some of the company's largest wide-body jet engine component product lines. Additionally, this inventory will add to an already independent USM inventory with additional teardown activity scheduled for the group to hit a record 100 assets for the year 2023.

FINANCIAL NEWS

Embraer reports initial investment in MSW MultiCorp 2 to attract Brazilian start-ups

Embraer has announced an initial investment in the MSW MultiCorp 2 of R\$20 million (around US\$4 million/£3.2 million), to attract and boost innovative Brazilian start-ups that synergize with the company's innovation strategy. Embraer has strengthened its role in promoting entrepreneurship in the Brazilian ecosystem, not only by making investments but creating partnerships with entrepreneurs interested in working collaboratively. MSW MultiCorp 2 is managed by MSW Capital, a venture capital manager and a pioneer in Brazil specialised in corporate venture capital. This is MSW's second Multi-Corporate Venture fund. The model developed by the manager allows large corporations to invest in start-ups in a strategic and structured way. Upon entering the fund, Embraer joins Moura Baterias and BB Seguros in expanding the fund's investment focus areas in insurance and energy for start-ups with digital and platform solutions for the aerospace, agro and cargo-logistics sectors.

Ryanair posts third-quarter net profit of €211 million due to strong Christmas/New Year traffic

Ryanair has reported that third-quarter scheduled revenue increased almost 85% to €1.45 billion due to strong travel demand at higher fares (+14% over pre-COVID), especially during the October mid-term and the peak Christmas/New Year holiday season. Ancillary revenue

MRO & PRODUCTION NEWS

Boom Supersonic kicks off construction of Overture Superfactory in Greensboro



Supersonic airliner Overture

Photo: Boom

Boom Supersonic has kicked off construction of its Overture Superfactory in Greensboro, North Carolina. The Overture Superfactory is a state-of-the-art manufacturing facility located on a 62-acre campus at the Piedmont Triad International Airport. This site will house the final assembly line, as well as test facility and customer delivery centre for Boom's flagship supersonic airliner, Overture. "Today's ground-breaking for the Overture Superfactory represents a significant step forward in building sustainable and accessible supersonic travel for the world," said Kathy Savitt, President of Boom Supersonic. "This milestone is a shared one and we are deeply appreciative of the input, leadership and support of the Piedmont Triad Airport Authority, local community and the state of North Carolina." By 2032, Boom will hire more than 2,400 workers at the Superfactory and recruiting is already underway. North Carolina economists estimate that the full Boom manufacturing programme will grow the state's economy by at least US\$32.3 billion (£26 billion) over 20 years. In addition to Boom's job creation in the state, the company is creating over 200 internships for students in North Carolina public universities, community colleges and trade schools to build the next generation of supersonic workers.

delivered another solid performance, generating over €22.50 per passenger. Total third-quarter revenue rose 57% to €2.31 billion while operating costs increased 36% to €2.15 billion driven by higher fuel costs (+52% to €0.90 billion, offset by improved fuel burn as more gamechangers enter the fleet), crew pay restoration and 24% traffic growth. Ex-fuel operating costs rose by only 26%, marginally ahead of traffic and year-to-date unit costs (ex-fuel) are just €30 per passenger. Other income/expenses benefitted from a weaker US\$ in the third quarter reversing H1's negative currency charge. While bookings continue to be closer-in than in spring 2020 (pre-COVID), the company has reasonable visibility for the remainder of the full year 2023, with full-year traffic guided at 168 million. Ryanair expects the fourth quarter to be loss making due to the absence of Easter from March. (£1.00 = €1.14 at time of publication).

Australian carrier Rex gives update on December operations

Regional Express, Rex, has reported that its unaudited management accounts for December have continued to show profitability for its domestic Boeing 737 jet operations, reporting a profit before tax (PBT) of AU\$4.0 million improving from the AU\$1.9 million in October and AU\$2.8 million in November. This makes the fourth consecutive month that the domestic jet operations have been overall profitable since the jet operations resumed in February 2022. The regional Saab 340 operations were still loss-making at a PBT level in December, however, EBITDA for the month came in at AU\$1.4 million making it the fourth consecutive month the regional operations have been cash-flow positive since COVID. The entire Rex Group showed an operational profit for the third consecutive month,

FINANCIAL NEWS

with the underlying PBT for December coming in at AU\$3.7 million, the highest since COVID. PBT for the months of October and November were AU\$0.8 million and AU\$3.1 million respectively. (£1.00 = AU\$1.75 at time of publication).

Global Crossing Airlines secures US\$5.0 million loan from long-term investor

Global Crossing Airlines Group (GlobalX) has secured an up-to-US\$5.0 million loan with a key long-term investor to provide working capital and additional liquidity to support GlobalX's rapidly growing operations. "GlobalX is fortunate to have a committed group of investors who continue to fund and support the expansion of our operating fleet. We took possession Tuesday, January 26, of our first freighter and expect to take delivery of an additional three aircraft over the next 45 days and this facility will give us the flexibility needed to continue our investments in crews, aircraft and operating systems required to deliver our targeted 2023 revenue," said Ed Wegel, Chair and CEO. The loan is a six-month facility that will be funded in two tranches of US\$2.5 million each. The first tranche will be advanced within one business day and the second tranche will be advanced after the company delivers a draw-down notice, but subject to the lender receiving internal approval for the second tranche. The loan is unsecured, is not convertible, has no warrants and will bear interest at the rate of 20% per annum, accruing monthly and payable upon maturity. The net proceeds of the loan will be used to further the business objectives of the company and to secure additional passenger and freighter aircraft for charter operations that are expected to be delivered in the first quarter of 2023. (£1.00 = US\$1.23 at time of publication.)

Embedded Ventures closes first US\$100 million fund

Embedded Ventures, an early-stage deep tech venture capital firm, has announced the first closing of its US\$100 million (£81 million) inaugural fund. The minority-led firm takes a commercial-first approach to investing in early-stage start-ups with applications that can serve the Department of Defence, focusing on cutting-edge start-ups in Digital Engineering, Advanced Manufacturing and Space Operations. Co-founders Jenna Bryant and Jordan Noone both have non-traditional backgrounds and are more hands-on than the typical VC-firm, offering potential founders not just capital, but also their extremely talented and forward-thinking team. Co-founder and CEO Jenna Bryant shares what this inaugural fund close means for the future

MRO & PRODUCTION NEWS

Lilium joins forces with GKN Aerospace for Lilium jet's electrical wiring interconnection system



© Lilium jet

Lilium N.V., the developer of an all-electric vertical take-off and landing (eVTOL) jet and GKN Aerospace, a leading developer of sustainable aerospace technology, have signed an agreement to work together to design and build an integrated and certifiable electrical wiring interconnection system (EWIS) solution. From its facility in the Netherlands, GKN Aerospace will build the EWIS hardware sets and support Lilium with on-site installation into the Lilium jet at Lilium's final assembly line in Oberpfaffenhofen, Germany. GKN Aerospace has a significant track record in the design and build of certifiable EWIS solutions within the aerospace industry. The scope of the collaboration covers the integrated design of the low-voltage and high-voltage electrical interconnections of the Lilium jet. This includes the integration of all wire bundles in the jet, the integration of the electrical EWIS components into operational systems to safely fly the jet and the development of innovative high-voltage, high-power interconnection solutions. For Lilium, this agreement represents an important step towards final assembly of the conforming aircraft due to begin later this year. Lilium already has agreements in place for aerostructures, avionics, battery cells, energy management systems, e-motors, propulsion system, aircraft interior and landing gear, among others

of Embedded Ventures, "With this first close, we will be able to continue deploying capital to under-noticed and under-valued companies in the market, where we can help them realise their true value." "Our national security and economic prosperity are at an inflection point, making investment into the technologies that will transform static markets and introduce entirely new ones more critical than ever," says co-founder and CTO Jordan Noone. To date, the fund has announced investments in Akash Systems Inc., Chromatic 3D Materials, Inversion, KittyCAD, Slingshot Aerospace and Skyrise.

StandardAero acquires Western Jet Aviation

StandardAero has acquired Western Jet Aviation, an independently owned business jet maintenance company that specialises in Gulfstream aircraft, located at the Van Nuys, California airport – one of the busiest business

aviation airports in the world, with an additional facility located at the Miami-Opa Locka, Florida Executive Airport. Western Jet Aviation represents StandardAero's 12th acquisition since 2015 and the company comprises a footprint of over 120,000 ft² of hangar, shop and office space on ten acres along with a team of nearly 100 aviation professionals. This marks the first acquisition by StandardAero that focuses on airframe/non-engine work in recent history. Western Jet Aviation is a certified repair station offering tip-to-tail maintenance and interior services for GIV and G200 through G650 jets, plus heavy avionics support on many other popular business aviation aircraft. Like StandardAero, Western Jet Aviation is FAA and EASA certified and OEM licensed with capabilities to provide modifications and upgrades for its customers. Western Jet Aviation provides line maintenance on Rolls-Royce Tay, Spey, BR710 and BR725 engines and services Honeywell 36 series and RE220 series APUs.

FINANCIAL NEWS

Norway's domestic carrier Flyr files for bankruptcy

Five days after UK regional carrier Flybe filed for bankruptcy, Norwegian domestic carrier Flyr has been forced to go down the same route after failing to raise only half of the needed cash to see it through the winter season and enable it to prepare for spring demand. "There is no longer a realistic opportunity to achieve a solution for the short-term liquidity situation," the company said in a statement, adding the board's decision was unanimous. Weak markets and uncertainty over demand were blamed for Flyr's inability to raise sufficient funds. The carrier had been operating a fleet of 12 Boeing 737 jets, including six 737 MAXs on lease from Air Lease Corp. Flyr confirmed on Monday it had tried and failed in recent days to secure NOK330 million (£27 million) of funding, triggering a 78% drop in its share price. Further trade in the stock will be suspended, Flyr said on Tuesday. Scandinavian carriers have been hard hit over recent years with rival carrier Norwegian Air undergoing restructuring supervision through Irish courts in 2021, resulting in a slimline version of the original carrier, while SAS is currently undergoing reorganisation under U.S. Chapter 11 bankruptcy protection proceedings.

MRO & PRODUCTION NEWS

Turkish Technic to provide base maintenance services to Air Serbia

Turkish Technic has signed an agreement with Air Serbia for the base maintenance services of four Airbus A320-family aircraft along with one A330 aircraft. In accordance with the contract, base maintenance of the first Airbus A320ceo aircraft has commenced



Air Serbia A320ceo

© Turkish Technic

at Turkish Technic's Istanbul Ataturk Airport facilities. Its certificate of release to service will be issued in the first week of February. The other aircraft within the scope of the contract will be taken to service at Istanbul Ataturk Airport facilities in the upcoming months. Operating as a one-stop MRO company with high-quality service, competitive turnaround times, comprehensive in-house capabilities at its state-of-the-art hangars, Turkish Technic provides maintenance, repair, overhaul, engineering, modification, tailor-made PBH and reconfiguration services to many domestic and international customers at five locations.



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OTHER NEWS

Nordic Aviation Capital (NAC) has entered into an MOU with **GE Aerospace** to explore a CORSIA*-compliant carbon offset programme that will allow NAC to offset carbon associated with its ferrying of aircraft and its direct employee long-haul business travel. The signing of this MOU represents NAC's commitment to driving a more sustainable business model. Brian Power, EVP Fleet Operations at NAC, said, "NAC is pleased to work with GE Aerospace on our first programme to offset carbon generated from our direct leasing operations." Cristina Seda-Hoelle, General Manager of Regional & Business Aviation Engines and Services at GE Aerospace, said, "GE Aerospace looks to support its customers in helping meet their goals to be more sustainable and we are pleased to work with NAC to test this pilot programme." *Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA)

Faced with increased disruptions, baggage mountains and staff shortages, airports and airlines are ramping up their investment in technology to digitalise their operations and speed up the passenger journey by offering more self-service options. **SITA's** 2022 Air Transport IT Insights report, published January 31, reveals that with the post-pandemic recovery CIOs want to ensure operations are as agile and resilient as they are efficient, with IT solutions seen as central to their success. This has spurred an acceleration of digitalisation, with airlines and airports looking to key technology solutions to fortify their operations against disruption while automating the passenger experience. The industry's IT spend is projected to continue its steady year-on-year growth trend since 2020 to support this push for digitalisation, with a full 96% of airlines and 93% of airports expecting their IT spend to stay the same or increase in 2023 compared to 2022. Last year airline and airport IT spending rose to an estimated US\$37 billion and US\$6.8 billion respectively. Airlines are placing great emphasis on IT tools to manage irregular operations and provide the best passenger experience possible even amid staff shortages. Over the next three years, 90% or more of airlines are investing in IT service management enhancement and disruption warning systems, as well as business intelligence initiatives for aircraft turnaround management, passenger processing, and baggage processing. Business intelligence solutions are at the forefront of airport IT investment priorities too, with 93% or more planning business intelligence initiatives for asset management and flight operations by 2025. The emphasis on agility, adaptability to disruption, and prompt communication with customers and stakeholders is clear; by 2025 half of airports are seeking to implement automated predictive alerts prior to flight disruption events as well as business intelligence initiatives to enable scaling of operations based on demand. Both airlines and airports are investing in key technologies to smooth

MRO & PRODUCTION NEWS

ATSA becomes first South American operator of Dash 8-400 aircraft to join De Havilland Canada's cargo solutions programme



Image of ATSA Dash 8-400 aircraft © De Havilland Canada

De Havilland Aircraft of Canada (De Havilland Canada) has released that Aero Transporte S.A. (ATSA) has signed a firm agreement for a Dash 8-400 freighter conversion with a large cargo door (Dash 8-400 F-LCD). With this agreement, ATSA has become the first South American operator of Dash 8-400 aircraft to join De Havilland Canada's cargo solutions programme and ATSA's Dash 8-400 F-LCD aircraft will be the first one operating on the continent. ATSA currently operates two Dash 8-400 aircraft from its base in

Peru to support the mining sector. "As an experienced operator of the Dash 8-400 aircraft, we have first-hand knowledge of its outstanding performance capability to support our expanding cargo operations in Peru's mining sector. Our country's complex geography that includes arid coastal plains, the Andean mountains and the rain forests of the Amazon basin, make the Dash 8-400 aircraft the ideal choice for this type of operation," said Carlos Cueva, President, ATSA.

FINANCIAL NEWS

UK's Flybe regional carrier cancels all flights and immediately stops trading

Flybe, the regional UK carrier has, for the second time in three years, entered into administration. It has ceased all operations, cancelled all flights and laid off 276 members of its staff, leaving some 75,000 passengers who have already booked tickets in a state of limbo as the tickets will no longer be honoured. "Flybe has now ceased trading and all flights from and to the UK operated by Flybe have been cancelled and will not be rescheduled," it said on Saturday. Operating a fleet of eight Bombardier Q400 twin-turboprop aircraft Flybe flew 21 routes to 17 destinations from Belfast, Birmingham and Heathrow across the UK and to Amsterdam and Geneva. David Pike and Mike Pink from Interpath have appointed joint administrators and Pike commented that since the carrier's relaunch last year it has encountered a number of problems, one of the major ones being the failure of lessors to deliver 17 aircraft on time, severely compromising Flybe's attempts at rebuilding capacity and remaining competitive. Flybe originally went into administration in March 2020 as a direct result of the impact of the COVID-19 pandemic on air travel, at that time affecting 2,400 jobs. The business was sold to Thyme Opco Ltd, a Cyrus Capital-controlled firm, in October 2021 and it recommenced operations in April 2022, though on a much smaller scale. The demise of Flybe is in contrast to a recent uptick in demand witnessed by both Ryanair and easyJet, two major low-cost European carriers, both of whom have reported record-breaking bookings for the forthcoming summer season.



Flybe Bombardier Dash 8-400 aircraft © AirTeamImages

the passenger experience across every step of the journey, to help curb bottlenecks and in turn allow redistribution of key staff resource to focus on more complex tasks. Biometrics and self-service technologies are seeing major emphasis. Airlines have identified self-service technologies as key to helping manage irregular operations, and this remained their top investment priority in 2022, with touchless solutions and biometric ID management following closely. To support effective baggage management and empower passengers following

a period of significant disruption, a majority of airlines plan to provide real-time baggage tracking information to passengers by 2025. Airports are similarly prioritising self-service initiatives, placing strong emphasis on self-check-in and self-bag drop, with 86% planning implementation by 2025. Airports' implementation of a secure single biometric token across all touchpoints has surged from just 3% in 2021 to 39% in 2022, with over half planning implementation over the next three years. This signals a strong commitment to the next-

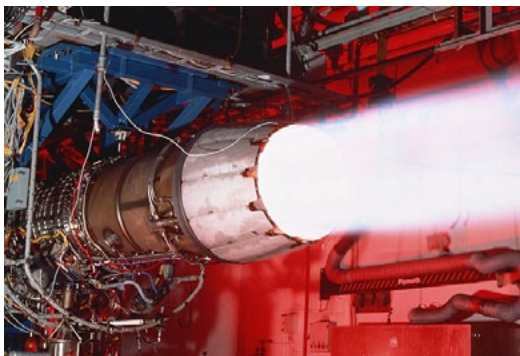
OTHER NEWS

generation travel experience where passengers can breeze through the airport using their face as their boarding pass.

The Department of Transportation's **Bureau of Transportation Statistics** (BTS) has released U.S. airlines' December fuel cost and consumption numbers indicating U.S. scheduled service airlines used 1.471 billion gallons of fuel, 5.3% more fuel than in November 2022 (1.398 billion gallons) and 5.2% less than in pre-pandemic December 2019. The cost per gallon of fuel in December 2022 (US\$3.14) was down 18 cents (5.3%) from November 2022 (US\$3.32) and up US\$1.14 (57.0%) from December 2019. Total December 2022 fuel expenditure (US\$4.63billion) was down 0.3% from November 2022 (US\$4.64billion) and up 48.7% from pre-pandemic December 2019. Year-over-year increases in fuel consumption and cost for December include 3.0% in domestic fuel consumption, 51.4% in domestic fuel cost, and 47.0% in cost per gallon. Domestic fuel consumption increased 4.2% from November to December in 2022, while decreasing 5.0% from December 2019. Increased fuel consumption

MILITARY AND DEFENCE

Swedish Armed Forces invest £15.5 million in engine test facility at GKN Aerospace



© GKN Aerospace

To ensure development and maintenance of the RM12 and RM16 fighter engines for the JAS 39 Gripen, the Swedish Armed Forces are investing in an extensive renovation and new construction of the engine test facility at GKN Aerospace in Trollhättan. GKN Aerospace currently develops and maintains the RM12 engine, while also building the same capability for the RM16. The engine test facility in Trollhättan is unique as it can replicate the same conditions

that an engine is exposed to when flying at supersonic speeds. The investment reinforces GKN Aerospace's unique position and extensive experience in aero-engine support and means technical support and maintenance for all versions of the Gripen aero-engines will be available in Trollhättan, Sweden for the long term. GKN Aerospace is also the OEM and type certificate holder of the JAS 39 Gripen C/D RM12 aero-engine and has been supporting the RM12 aero-engines since the first JAS 39 Gripen aircraft went into service in 1997. Since the 1930s, GKN Aerospace has manufactured, maintained and developed the fighter aircraft engines for the Swedish Air Force. GKN Aerospace employs 2,000 people in Trollhättan of which about 250 work in its military engines design and support business.

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reflects an increase in airline passenger travel over the same period.

Fuel cost per gallon for U.S. airlines (total) scheduled service:

December 2019: US\$2.00

December 2021: US\$2.14

November 2022: US\$3.32

December 2022: US\$3.14

(£1.00 = US\$1.23 at time of publication).

In the last full week of January 2023, global air cargo tonnages dropped significantly, as could be expected given the early start of the Lunar New Year, but further analysis of underlying trends reveals the impact of the weakening global economy on air cargo, the latest preliminary figures from **WorldACD Market Data** indicate. Figures for week four (23 to 29 January) show a decrease of 11% in worldwide tonnages compared with the previous week, mainly driven by the Lunar New Year that started on January 22. The global average rate level decreased also significantly, by 9% compared with the previous week. However, if we look at all flows to and from Mainland China, Hong Kong, Taiwan, South Korea, Singapore, Malaysia and Vietnam combined, a drop of 37% in tonnages was recorded, whereas all other flows decreased by 5% in tonnages and by 4% in the average rate. Therefore, the slowdown of the global economy cannot be ignored in these figures. Comparing weeks three and four with the preceding two weeks (2Wo2W), tonnages increased slightly (1%) above its combined total in weeks one and two, with a 1% decrease in capacity, while average worldwide rates dropped by 4% – based on the more-than 400,000 weekly transactions covered by WorldACD's data. On a regional level, the effect of the Lunar New Year on air cargo tonnages was most notable on flows inbound Asia Pacific from North America (-22%), Middle East and South Asia (-22%) and Europe (-5%) respectively, but also outbound Asia Pacific to North America (-14%), Middle East & South Asia (-9%) and Europe (-12%) respectively, and intra-Asia Pacific (-34%), on a 2Wo2W basis. Positive developments were observed on almost all other flows, especially between Europe and North America (westbound +29%; eastbound +17%), between Europe and Africa (both directions +20%) and between North America and Central & South America (northbound +57%, southbound +13%). Comparing the overall global market with this time last year, chargeable weight in weeks three and four was down 29% compared with the equivalent period last year. Most notably, tonnages ex-Asia Pacific are down by 48%. This comparison is skewed, because last year the Lunar New Year started ten days later, on February 1, 2022. There were also double-digit percent year-on-year drops in tonnages outbound from North America (-27%), Europe (-16%) and Middle East & South Asia (-16%). Overall capacity has increased by 7% compared with the previous year, with positive developments from all regions except Asia Pacific (-11%) due to the Lunar New Year. Most notable increases were ex-Africa (+21%), ex-North America (+14%) and ex-Middle East and South Asia (+11%). Worldwide

MILITARY AND DEFENCE

U.S. Air Force awards Boeing contract for 15 KC-46A tankers worth US\$2.3 billion



KC-46A Pegasus tanker aircraft

© Boeing

The U.S. Air Force has awarded Boeing a US\$2.3 billion (£1.9 billion) contract for the ninth production lot of 15 KC-46A Pegasus tanker aircraft, expanding its fleet of the world's most advanced multi-mission aerial refueler. To date, 128 KC-46A Pegasus are on contract with the U.S. Air Force, with 68 delivered and operationally deployed worldwide. The KC-46A Pegasus delivers crucial fuel and data for the fleet, as well as cargo, personnel and aeromedical transportation for joint force rapid mobility, global reach and agile combat employment. Last year, the U.S. Air Force Air Mobility Command approved the KC-46A for global operations including combat deployment. The Pegasus continues to demonstrate its agile combat employment capabilities, recently completing a 42-hour endurance flight supporting a U.S. Air Force Bomber Task Force mission in the Indo-Pacific region. During 2022, KC-46A aircraft operating in a series of U.S. Air Force global employment exercises in the European theatre, Indo-Pacific region and the Middle East performed at a greater than 95% mission-capable rate, demonstrating the aircraft's reliability and combat readiness. Boeing builds KC-46A aircraft on the 767 production line in Everett, Wash., supported by a supplier network of about 37,000 American workers employed by more than 650 businesses throughout more than 40 U.S. states. With Boeing's in-line production, the KC-46A is designed and built as a tanker from day one — not a post-production conversion — making the Pegasus uniquely suited to integrate advanced technology for fleet data connectivity and combat-ready defensive features, as well as new capabilities as the needs of the mission evolve.

Field Aerospace completes modification for Turkish Air Force's KC-135 Block 45 aircraft

Field Aerospace (Field) has completed the Turkish Air Force KC-135 Block 45 modification, under a contract through the KC-135 Foreign Military Sales (FMS) programme office. The programme finished one year ahead of schedule. Türkiye is the second-largest operator of the KC-135 Stratotanker next to the USAF. The Block 45 modification removes the legacy autopilot system, flight director system, engine analogue gauges and radio altimeter and installs a dual autopilot and flight director system, new radio altimeter system and new engine display. This effort included modifications to seven Turkish Air Force KC-135 Block 45 aircraft. This contract period of performance was from January 29, 2021, to January 28, 2024. Work was completed in December of 2022. Field had previously completed the prototype Block 45 modification on two United States Air Force (USAF) KC-135 aircraft and installed the modification on the first 15 Block 45 low-rate initial production (LRIP) aircraft.



KC-135 Block 45 aircraft

© Field Aerospace

rates are currently 28% below their levels this time last year, at an average of US\$2.79 (£2.27) per kilo in week four, despite the effects of higher fuel surcharges, but they remain significantly above pre-COVID levels.

Aircraft design and certification specialist, **Aerospace Engineering Solutions** (AES), is powering into 2023 with the launch of a new office in Malaga, Spain, as the company embarks on a phase of international expansion. Trading as **AES Spain**, a wholly owned subsidiary of AES,

the new operation will enable the business to develop new partnerships with commercial and private aviation clients across Europe, which will benefit from the unrestricted level 2A Design Organisation Approval (DOA) capability held by AES. Located at Malaga's state-of-the-art business incubator technology park, BIC Euronova, AES Spain is the first DOA in Malaga and only the second in Andalucía. The new operation has also become a member of the Andalucía Aerospace cluster of more than 60 aerospace companies based in the region, for the purpose of fostering technological developments, potential project

OTHER NEWS

collaboration and strengthening its international presence. In addition to a team of highly skilled design engineers, AES Spain has recruited two aerospace engineering graduates from the University of Malaga, as part of the company's commitment to future-proofing its skills base.

Having taken over from **Warren East** in January of this year, **Rolls-Royce's** new CEO, Tufan Erginbilgic has warned all staff at the FTSE-100 firm that it must change the way it operates if it is to have a future. In a global announcement Erginbilgic stated that: "Every investment we make, we destroy value. We underperform every key competitor out there," adding that: "Rolls-Royce has not been performing for a long, long time, it has nothing to do with COVID, let's be very clear. COVID created a crisis, but the issue in hand has nothing to do with it. Given everything I know talking to investors, this is our last chance." The company achieved a revenue of £5.60 billion in the six months ended June 30 2022, up from £5.15 billion a year earlier. Unfortunately, that swung to a hefty pretax loss of £1.75 billion from a profit of £114 million. Rolls-Royce is a flagship UK company and is responsible for producing, among other things, jet engines for aircraft including the Airbus A350 and the Boeing 787 Dreamliner. However, analysts have frequently viewed the company as being less profitable than its North American rival General Electric in the aerospace sector. One of the problems facing Erginbilgic is that his predecessor had already executed a campaign of restructuring and asset sales, so these options are not exactly available today. Consequently, he has warned staff that they will need to "think differently, act differently, make a difference so this business corrects itself and we don't have much time".



© Sacramento International Airport

The **Sacramento County Department of Airports**, which operates **Sacramento International Airport** (SMF), has announced SMForward, a US\$1.3 billion expansion project aimed at improving Airport capacity to accommodate anticipated passenger growth over the next seven years. This will be the largest construction programme in the airport's history. SMForward will be made up of six individual projects to include: the creation of a stunning US\$140 million pedestrian walkway, expanding of Terminal A and Concourse B, a new parking garage for Terminal B and a consolidated ground transportation centre that will amalgamate taxi, rideshare and off-site shuttle providers into a single area that can be accessed on foot from either terminal. SMForward should be completed by the end of 2027 with the completion of a new US\$400 million consolidated rental car facility. "The airport experience is the first impression many people see when they arrive in Northern California – and the last as they leave," said Cindy Nichol, Director of Sacramento County Department of Airports. "SMForward will change the airport's skyline, but it also sets the stage for the airport's growth and our region's as a whole." In addition, SMForward is a visionary project that will be financed through a combination of federal and state grants, municipal bonds issued by the airport and user fees, as opposed to being funded by local taxpayers. 2022 saw SMF almost reach pre-pandemic levels with six consecutive years of year-over-year record-breaking passenger growth through 2019. Forecasts predict regular passenger growth averaging 4.3% annually through 2041, underlining the need for expansion. (£1.00 = US\$1.23 at time of publication).

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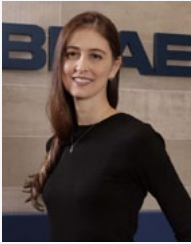


INDUSTRY PEOPLE



Lukas Brosi

• The Board of Directors of Flughafen Zürich has appointed **Lukas Brosi** as its new CEO. He succeeds **Stephan Widrig**, who will leave the company at the end of April, as previously announced. Brosi joined Flughafen Zürich in 2009 and has been CFO and a member of the Management Board since 2017. Widrig will leave the company at his own request to take on a new external challenge. The handover of the CEO position and responsibilities to Brosi will take place by the end of April. Flughafen Zürich will now start the process of filling the CFO position.



Andreza de Souza Alberto

• Embraer has appointed **Andreza de Souza Alberto**, current Director of Operations at Embraer's Gavião Peixoto (SP) unit, will be the new Vice President of People, ESG and Corporate Communications. The current VP of the area, **Carlos Alberto Griner**, announced in December his decision to leave the company. The change becomes effective on February 1, 2023. With 17 years of experience at Embraer, de Souza Alberto holds a degree in mechatronics engineering, with specialisation courses in management at Fundação Dom Cabral and governance at IBGC. At the company, she currently leads the Gavião Peixoto (SP) unit, which has more than 2,000 employees and is mainly dedicated to the production of defence aircraft and executive jets. Previously, she worked as a production manager and manufacturing engineering supervisor, with a strong focus on people management, safety and quality, process improvements and lean implementation.



Stefano Marazzani

• **Stefano Marazzani** has been appointed SVP Customer Support and Services effective January 16, 2023. He joins ATR's Top Management team, reporting directly to Chief Executive Officer **Nathalie**

OTHER NEWS



ITA Airways Airbus A350-900 aircraft

© ITA Airways

ITA Airways, one of the youngest European airlines, is the new Italian national carrier. ITA Airways serves an extensive domestic and international network via its two hubs Rome Fiumicino and Milan Linate. Now, the airline joins the **Board of Airline Representatives in Germany (BARIG)**. "Germany is a strategic market for ITA Airways and we are proud to be a member of BARIG. From sustainability to fair competition, BARIG drives forward key issues in the aviation industry which are essential to our airline," said Rodney Cali, Country Manager Germany at ITA Airways. "To ensure connectivity between Germany and Italy, ITA Airways offers 94 weekly flights from Frankfurt, Munich, Stuttgart, and Duesseldorf to its two hubs in Italy—Rome Fiumicino and Milan Linate—as well as further connections to the whole Italian network and to major international destinations." Since the start of operations on October 15, 2021, with a fleet of 52 aircraft, ITA Airways has been pursuing a clear growth strategy. In 2023 alone, 39 new aircraft are scheduled to enter service while the range of intercontinental flights will be expanded with new routes to North and South America—from Rome Fiumicino to San Francisco, Washington, and Rio de Janeiro. Besides passenger services, ITA Airways focuses on air cargo transportation as well. Among other things, the airline is certified for temperature-controlled pharmaceutical transports according to the global IATA CEIV standard.



Qatar Airways Airbus A350 aircraft

© AirTeamImages

Qatar Airways and **Airbus** have reached an amicable and mutually agreeable settlement in relation to their legal dispute over A350 surface degradation and the grounding of A350 aircraft, avoiding a UK court trial. A repair project is now underway to get these aircraft safely back in the air. The details of the settlement are confidential, and the parties will now proceed to discontinue their legal claims. The settlement agreement is not an admission of liability for either party. This agreement will enable Qatar Airways and Airbus to move forward and work together as partners.

INDUSTRY PEOPLE

Tarnaud Laude. Marazzani succeeds **David Brigante** who will take on new responsibilities within the Leonardo Group. Over the past 26 years Marazzani has enjoyed a global career within the aviation industry, holding various positions of increased responsibility in Alitalia and SuperJet International, where he was appointed CEO in 2017. In addition to his strong airline background, his wide practical experience in aircraft maintenance, customer support and operations will bring huge added value to ATR and its operators.



Stéphane Viala

- Ascendance Flight Technologies, the French start-up specialising in aviation decarbonisation, has named **Stéphane Viala** as Director of Engineering & Programme. As of February 1, 2023, Viala will oversee the technical management of the young aircraft manufacturer's two flagship programmes: the STERNA modular hybrid propulsion system and the hybrid-electric VTOL aircraft ATEA. The aeronautical engineer from ISAE-ENSMA also holds a PhD in turbulence modelling from SUPAERO/ONERA. He was previously SVP Engineering and Head Of Design Organisation of French-Italian aircraft manufacturer ATR, which he joined in 2015. Before being appointed by ATR, Viala had been in various leading positions at Airbus for 16 years. He first headed the aerodynamic methods and A350 flight dynamics teams before leading the A30X flight physics and flight dynamics integrated team. Viala also defined products evolution, multidisciplinary methods and technology in R&T programmes for four years, as head of Overall aircraft Design, encompassing flight physics, engine, flight test bed and methods and tools perimeter. He was the A320 incremental development chief engineer before joining ATR. Viala holds several patents in the aerospace field and has published several technical articles.

- CFM International has appointed **Florence Minisclou** as Executive Vice President, replacing **Sébastien Imbourg**, who was recently named Vice President Sales & Marketing for Safran Aircraft Engines. As part of the CFM executive team, Minisclou is responsible for overseeing the CFM56 and LEAP programmes, working closely



Florence Minisclou

with her counterpart at GE Aerospace, **Karl Sheldon**, to monitor engineering, development, production and services activities for these programmes. Minisclou also serves as Vice President of CFM programmes for Safran Aircraft Engines. She brings a wealth of customer-focused experience and a strong vision of the market and customer environment to her role at CFM. A graduate of Institut d'Optique Graduate School ParisTech (Sup' Optique), she joined the aeronautics and defence division of Sagem (now Safran Electronics & Defense) in 1992, successively serving as system engineer, project manager and, ultimately, programme manager in charge of optronic systems in the defence industry in France and Europe. In 2003, she moved to the avionics division to manage A380 Customer Support and Services. In 2007, she became the head of the key Airbus account. In 2010, she became director of key aircraft accounts within the commercial department and developed avionic sales for commercial, regional and business jet markets. She was then appointed Senior Vice President of Sales and Marketing for the avionics division in September 2015. After five years at this position, she became head of Safran Landing Systems customer directorate.

- **John Holland-Kaye** has informed the Board of Heathrow Airport that he intends to step down as CEO during 2023, after nine years at the helm of the airport. During Holland-Kaye's exceptional leadership, he has been building a strong management team, developing a consumer-focused culture, improving cost efficiency, and putting Heathrow at the forefront of global aviation's decarbonisation. The transformation of the airport during his time as CEO has been recognised as Heathrow won a number of significant awards including: Sunday Times top-30 employer; one of the top-10 airports in the world (voted by passengers); and edie's Sustainable Business of the Year award. Three of the most significant successes of his tenure were the development of the plan for Heathrow expansion that secured overwhelming Parliamentary approval, successfully navigating the business through the COVID-19 crisis and the recovery in demand, and his leadership in putting aviation firmly on course for net-zero by 2050.



Peter Gerber

- German leisure carrier Condor Flugdienst GmbH (Condor), majority owned by Attestor Capital, has announced that the current CEO, **Ralf Teckentrup**, will be replaced in February 2024, as planned, by **Peter Gerber**. Gerber has held various positions in the Lufthansa Group over the past 30 years, including as a member of the Executive Board of Lufthansa Passenger Airlines, as CEO and CFO of Lufthansa Cargo, and most recently as CEO and CCO of Brussels Airlines. He is currently Chief Representative for European Affairs of the Lufthansa Group, while previously he had held the position of President of the German Air Transport Association (BDL).

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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
A320-233ceo	FPG Amentum	V2527E-A5	4457	2010	Now	Sale / Lease	Lei Ma	ma.lei@fpg-amentum.aero	+852 9199 1875
A330-200	GA Telesis	PW4168A	322	2000	Jul 2022	Sale / Lease	David Byrne	aircraft@gatelesis.com	+353 86 780 8974
B737-900	BBAM	CFM56-7B26/3	34953	2007	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B737 MAX 8	ALTAVAIR	Leap	43564	2022	Now	Lease	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493
B737 MAX 8	ALTAVAIR	Leap	60135	2022	Now	Lease	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493
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
B777-300ER	BBAM	GE90-115BL	38986	2011	Nov 2023	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
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

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



THE AIRCRAFT AND ENGINE MARKETPLACE

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
CF34-10E5	Now - Lease				
CF34-8C5	Now - Lease				
(2) CF34-10E5	Now - Sale / Lease	DASI	Joe Hutchings	joe.hutchings@dasi.com	+ 1 954-478-7195
(3) CF34-10E6	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) 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
CFM Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CFM56-5B3/3	Now - Lease	FTAI Aviation LLC	Mark Napoles	mnapoles@ftaiair.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				
(1) CFM56-5B4/P	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(2) CFM56-7B24/E	Now - Lease				
(1) CFM56-7B26	Now - Lease				
(2) CFM56-5C4/P	Now - Lease				
(1) CFM56-7B26/3	Now - Lease				
(2) CFM56-5C4	Now - Lease				
(1) 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
(1) CFM56-7B24/E	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(2) CFM56-7B27E/B1F	Now - Lease				
(2) CFM56-5B3/3	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) CFM56-5B6/3	Now - Sale / Lease	GA Telesis		engines@gatelesis.com	
(1) CFM56-7B27	Now - Lease				
(2) CFM56-7B26	Now - Sale				
(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	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(3) LEAP-1B28	Now - Lease				
PW1100G Engines	Sale / Lease	Company	Contact	Email	Phone
(1) PW1100G-JM	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
(1) PW4168A	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(2) PW4168A	Now - Sale / Lease	GA Telesis		engines@gatelesis.com	
(1) PW4168A	Q4/2022 - Sale	ALTAVAIR	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493
PW Small Engines	Sale / Lease	Company	Contact	Email	Phone
(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.				

THE AIRCRAFT AND ENGINE MARKETPLACE

Commercial Engines

PW Small Engines	Sale / Lease	Company	Contact	Email	Phone
PW121	Now - Sale	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
PW127F	Now - Sale				
PW150A	Now - Sale / Lease				
PW127M	Now - Lease				
(1) PW150A	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	leasing@willislease.com	+1 (561) 349-8950
(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.				
(3) V2533-A5	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) V2524-A5	Now - Lease				
(1) 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) V2527-A5	Now - Sale/Lease/Exch.	Magellan Aviation Group	Bradley Hogan	bradley.hogan@magellangroup.net	+1 980.256.7120
(1) 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	
(2) V2533-A5	Now - Sale / Lease				

Aircraft and Engine Parts, Components and Misc. Equipment

Description		Company	Contact	Email	Phone
(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
(1) A320 Landing Gear Shipsets (1) 777-200 Landing Gear Shipset		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 (1) GTCP331-500B	Now - Sale / Lease Now - Sale / Lease Now - Sale/Lease/Exch.	Magellan Aviation Group BBAM	Drew Megorden Steve Zissis	drew.megorden@magellangroup.net info@bbam.com	+1 704-340-0273 +1 787 665 7039
(2) APS2300, (1) APS3200 ((1) GTCP331-200ER, (2) RE220RJ (2) GTCP36-150RJ	Now - Sale / Lease Now - Sale/Lease/Exch.	DASI Regional One	Chris Glascock Miguel Bolivar	chris.glascock@dasi.com mbolivar@RegionalOne.com	+1 954-801-3592 +1 954-683-1893
Neutral V2500-A5 QEC Kits (2) 745K9001-64 (3) GTCP131-9B, (1) GTCP131-9A (1) GTCP331-350, (1) GTCP331-500, (2) APS3200B, (3) APS3200C Engine stands: CF6-80C2, CFM56-3, CFM56-5A/B/C, PW4000	Now - Sale Now - Sale / Lease Now - Lease	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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