

Weekly Aviation Headline News

WORLD NEWS

Airlines join forces to challenge the future of Schiphol Airport

The KLM Group, Delta Air Lines, Corendon, easyJet and TUI are joining forces to take summary proceedings against the Dutch government in a bid to keep the Netherlands connected to the rest of the world via Schiphol Airport. The airlines are challenging the government's unilateral decision to significantly cut flight movements at Schiphol, confident they can reduce noise levels and CO2 emissions while maintaining a network of destinations for the millions of passengers and tonnes of cargo they carry annually to and from Schiphol.

LATAM Group completes its first international flight with SAF

LATAM Group completed its first international flight with Sustainable Aviation Fuel (SAF). The flight was operated by LATAM Cargo Chile between the Zaragoza airport and North America, in line with the Groups commitment to becoming carbon neutral by 2050. SAF is a bio-fuel made from alternative biomass sources such as waste, fats, and oils, which are co-processed with fossil feedstocks fuel to produce synthetic, low-CO2 fuel. In this case, 30,000 litres of co-processed SAF made from cooking oil were used, combined with traditional jet fuel.

Virgin Atlantic formally joins SkyTeam

Virgin Atlantic has formally joined SkyTeam, the global airline alliance, at a signing ceremony in London. The move means Virgin Atlantic becomes SkyTeam's first and only UK member airline, enhancing the alliance's transatlantic network and services to and from Heathrow and Manchester airports. Virgin Atlantic's entry into the alliance builds upon the success of its transatlantic joint venture with Delta and Air France-KLM, each already long-established SkyTeam members. Virgin is co-located at London Heathrow's Terminal 3, alongside Delta and existing SkyTeam members Aeromexico and China Eastern.



Cargo yields were 132% above pre-crisis levels at Lufthansa Cargo.

© Lufthansa Cargo

Air freight capacity rises above pre-pandemic levels

Indicating a new baseline for the cargo market

Global air cargo capacity increased for the eleventh consecutive month in February, up 11% on the same period last year. The global average air freight spot rate of USD 2.73 per kg declined -35% year-on-year but remained +52% ahead of the pre-Covid level seen in 2019 according to data released by CLIVE

Data Services, part of Xeneta. Global air cargo volumes fell -4% year-on-year in February as available cargo capacity rose above the pre-pandemic level for the first time in four years. Niall van de Wouw, Chief Airfreight Officer at Xeneta, said the latest data means it's time for the industry to let go of pre-Covid comparisons and to acknowledge a new baseline for air cargo market growth.

"CLIVE Data Services was one of the first industry analysts to benchmark data versus the pre-pandemic level because a comparison was needed at the time to accurately measure air cargo's performance. But the fascination and rhetoric around air

freight rates going back to the 2019 level needs to be replaced based on the inflationary components we now see."

For the key operators, Lufthansa Cargo has come out on top and achieved record results for the third time in a row. The cargo division reported a record EUR€1.6bn

With more freighters and more bellies, we will continue to be a strong and reliable partner for our customers," said Dorothea von Boxberg, Chairperson of the Executive Board and CEO of Lufthansa Cargo." Meanwhile, in the Asia Pacific region, the Association of Asia Pacific Airlines (AAPA) reports that air cargo

volumes came under pressure due to multiple headwinds. Higher inflation levels across various economies and the persistently strong US Dollar

have added to the price pressures for imported commodities and merchandise in local currency terms.

On the Europe to North America corridor, February's average spot air freight rate was USD 2.88 per kg, a fall of -6% from last month's level and -40% from a year ago but remained up 42% on the pre-pandemic level.

"The stabilising market is creating a new baseline. It is time to let go of pre-Covid comparisons," van de Wouw noted.

"We again had significantly more capacity in the market due to the growth in long-haul passenger traffic."

Dorothea von Boxberg, CEO Lufthansa Cargo

EBIT boosted by cargo yields that were 132% above pre-crisis levels due to reduced industry capacity. "In the past fiscal year, we achieved a record result for the third time in a row. We owe this to the high level of commitment of our employees and the trust of our customers and partners. In addition, we again had significantly more capacity in the market due to the growth in long-haul passenger traffic. We notice that our customers continue to serve their global supply chains.

AIRCRAFT & ENGINE NEWS

Airbus delivers first A321neo to EGYPTAIR

EGYPTAIR has taken delivery of its first A321neo from Airbus' Delivery Centre in Hamburg, making the airline the first African operator of the aircraft. EGYPTAIR has specified a high-comfort, two-class configuration with 16 Business-class seats and 166 Economy-class seats and will increase the airline's single-aisle capacity to the Middle East, Africa and Europe. The aircraft is on lease from AerCap and is powered by CFM engines. The A321neo is the largest-fuselage member of Airbus' single-aisle A320 family and brings a 20% reduction in fuel consumption and emissions per seat compared with previous-generation competing aircraft. This enables EGYPTAIR to benefit from enhanced efficiency and be able to deliver on its commitment to sustainability, whilst reducing operating costs. This modern aircraft joins EGYPTAIR's Airbus fleet of 12 A220s, eight A320neos, two A320ceos, four A330-200s and four A330-300s. With the addition of the A321neo, EGYPTAIR is demonstrating continuous ambitions to expand its Airbus fleet to meet current and future demand. Across all its aircraft families, Airbus' unique approach ensures that aircraft share the highest commonality in airframes, on-board systems, cockpits and handling characteristics. This significantly reduces operating costs and maximises the airline's profitability. The delivery flight from Hamburg to Cairo was powered by a 34% Sustainable Aviation Fuel (SAF) blend. SAF is a sustainably produced aviation fuel made from feedstocks ranging from used fat, oil and grease, to municipal and forestry waste. Compared to fossil jet fuel, SAF has been demonstrated to result in an up-to-80 percent reduction in CO2 emissions across the entire SAF lifecycle. Therefore, it is considered as a key enabler to contribute to the decarbonisation of aviation.

Finnair celebrates 100 years with A350 aircraft Moomin makeover

Finnair is turning 100 years in November 2023. To mark the centenary, the beloved Moomin characters will be featured on the

Alliance Airlines acquires an additional 30 E190 aircraft from AerCap



Alliance Airlines Embraer E190 jet

© AirTeamImages

Alliance Airlines has entered into a sale-and-purchase agreement for an additional 30 Embraer E190 aircraft from Dublin-based lessor AerCap. The additional 30 E190 aircraft are currently on lease from AerCap to a U.S. airline and have been operated by the carrier since new. Aircraft deliveries and payments will commence in September 2023 and will be completed in January 2026. Final purchase price for each aircraft will be adjusted for the maintenance status of the airframe and the two fitted engines in the week preceding each delivery. Accordingly, there is a significant degree of variation in unit cost and a totally firm fleet price is unable to be given at this time. The aircraft will be purchased one at a time over a two-year period by a mix of debt and cash generated through the operation of the company's existing Fokker and Embraer 70 aircraft fleet. The aircraft will be delivered in the United States and then flown to Alliance's new base maintenance facility in Rockhampton for refurbishment and Australian certification. A number of the aircraft may also be disassembled, and the engines and other componentry retained to support the balance of the company's Embraer fleet, thus ensuring Alliance has access to a sizeable parts pool for the E190 fleet. Should all aircraft be added to the company's operating fleet, the total fleet size would eventually reach 100 with 37 Fokker 100/70 and 63 Embraer E190 aircraft. The additional fleet will be utilised across all the company's operations. Alliance's Managing Director, Scott McMillan commented, "This acquisition will provide Alliance with increased capacity, access to major componentry including engines and enhanced operational capability." With the aircraft being delivered over a period of more than two years from September 2023, Alliance will be able to increase services progressively as and when each aircraft is certified after major maintenance checks in Rockhampton. Alliance is a leading Australasian provider of contract, charter and allied aviation and maintenance services currently employing more than 1,200 staff.

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livery of two Finnair wide-body aircraft for the duration of the year. Finnair has taped a picture of Moomintroll and Snorkmaiden in the livery of two of its Airbus A350 aircraft, with registration numbers OH-LWP and OH-LWO. The Moomin aircraft will fly to various long-haul destinations in Finnair's network, like Dallas, Tokyo and Bangkok. Last time the Moomins were seen in Finnair aircraft livery was in the mid-1990s, while the new-centenary livery was taped by HAECO in Hong Kong. In addition to the Moomin livery, Finnair Technical Operations in Helsinki have painted the centenary slogan "Bringing us together since 1923" on three other aircraft.

Airbus predicts airlines in Asia Pacific region will take delivery of 920 new aircraft over next 20 years

Airlines based in the Pacific region will take delivery of 920 new aircraft over the next 20 years, generated by an average growth in passenger traffic in the region of 3.2% per annum, according to the latest Airbus Global Market Forecast. This forecast for new aircraft includes around 750 single-aisle aircraft like the A220 and A320 families and around 170 wide-bodies like the A330neo and A350. Around 55% of this demand will be for growth and 45% will be to replace aircraft currently in service. The forecast was presented by Stephen Forshaw, Airbus Chief Representative for Australia, New Zealand and the Pacific, on the eve of the Avalon Airshow taking place between February 28 and March 5 2023, in Melbourne. "We are already seeing steady recovery in global air traffic and a renewed confidence in the growth of the industry. This is particularly evident in the Pacific region, where we are seeing a surge in travel demand and an increase in flights to and from key destinations," he said. "A priority for airlines in this region is ensuring that the air transport sector can grow in a sustainable way. This has become an increasingly important factor when airlines make fleet decisions and Airbus is well-placed with the modern and comprehensive product line available today, offering a reduction in fuel consumption and emissions of up to 25%." He added that the replacement of older-generation aircraft was just a first step on the journey to decarbonise the aviation sector. "Looking to the future, we need to increase the production and availability of sustainable aviation fuels in this region and explore new sources of energy, including hydrogen and synthetic fuels. This requires a new level of collaboration between all the stakeholders involved." In the Pacific region Airbus has entered into significant partnerships over the past year to advance

CDB Aviation delivers final 737 MAX 8 aircraft to Oman Air



CDB Aviation has delivered a new Boeing 737 MAX 8 to Oman Air

© AirTeamImages

Lessor CDB Aviation has delivered a new Boeing 737 MAX 8 aircraft to Oman Air. This is the final aircraft in a series of five deliveries contracted as part of a sale-and-leaseback transaction with Oman Air, the national airline of the Sultanate of Oman. The aircraft, equipped with CFM Leap 1B27 engines and configured with 12 Business- and 150 Economy-class seats, will support the carrier's ever-expanding network. Oman Air has been introducing routes throughout the Middle East and the Indian Subcontinent, as well as several cities in Europe, South Asia and Africa, in recent years and is focused on growing additional connectivity to North and South America and Australia.

New Hong Kong-based Greater Bay Airlines places order for 15 Boeing 737-9 aircraft



GBA has placed an order for 15 Boeing 737-9 airplanes

© Boeing

Greater Bay Airlines (GBA) has placed an order for 15 Boeing 737-9 airplanes. The order also includes a commitment for five 787 Dreamliners to support GBA's long-term plan to launch international long-haul services. The new Hong Kong-based carrier said the 737-9 will form the backbone of its future fleet as it seeks to operate more flights between Hong Kong and major cities in Asia and Mainland China. The airline plans to leverage the 737-9's enhanced capacity and range to lower trip costs and expand its network. The all-Boeing carrier currently operates a fleet of three 737-800 jets with flights to four destinations, including Bangkok, Taipei, Tokyo and Seoul. The airline also plans to bring in a number of additional 737-800s to meet its expansion needs before the arrival of the 737-9s. The 737-9 is designed to seat more than 190 passengers in a two-class configuration with a range of 3,300 nautical miles, providing operators added capacity and increased profitability within their networks

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its ambitions. These include a joint fund with Qantas to encourage industry to develop the necessary ecosystem in Australia and a project with Air New Zealand to study applications for hydrogen-powered aircraft on its domestic network. Airbus is also involved in studies with Australia's Fortescue Future Industries (FFI) and most recently announced its participation in a new hydrogen consortium in New Zealand alongside Christchurch Airport, Air New Zealand, FFI and several start-ups.

Lufthansa Group places US\$7.5 billion order for 22 latest-generation long-haul jets

The Supervisory Board of Deutsche Lufthansa AG (Lufthansa) has approved the orders for 22 new state-of-the-art long-haul jets placed by the Lufthansa Group. The order comprises ten Airbus A350-1000 passenger aircraft, five Airbus A350-900 passenger aircraft and seven Boeing 787-9 'Dreamliner' passenger aircraft. The value of the order stands at US\$7.5 billion at current list prices. Deliveries are due from

LCI set to deliver AW139 helicopters to Babcock Australasia



AW139 helicopter

© LCI

LCI is set to deliver two new Leonardo AW139 helicopters on long-term lease to Babcock Australasia (Babcock), Australia in early 2024. The aircraft, which are valued at over US\$40 million (£22.4 million), will be deployed by Babcock on mission-critical and socially responsible Emergency Medical Services (EMS) operations. The Leonardo AW139 combines flexibility, high performance, proven technologies, and exceptional safety features and is one of the best-selling twin-engine helicopters in its class with more than 1,000 units in service worldwide. Boasting superior performance, advanced safety design features and state-of-the-art avionics, the AW139 can carry up to 15 passengers in a spacious cabin. LCI is a longstanding leasing partner for Babcock, providing helicopters for a wide variety of operational roles in markets across Australia and internationally. Australia is a major and important market for LCI, with 16 of its AW139 helicopters already on lease operating EMS and offshore support roles.



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the mid-2020s onwards. Including these latest orders, the Lufthansa Group will take delivery of 108 state-of-the-art long-haul aircraft including Airbus A350-1000s, Airbus A350-900s, Boeing 787-9s and Boeing 777-9s over the coming years. This means that, on average, these new aircraft will consume just 2.5 litres of fuel per passenger per 100 kilometres – approximately 30% less than their predecessors. These new long-haul aircraft will also replace older aircraft types. In the medium-term future, six such sub-fleets will be taken out of service: the four-engined Boeing 747-400s, Airbus A340-600s and Airbus A340-300s and the two-engined Boeing 777-200s, Boeing 767-300s and Airbus A330-200s. This will reduce the quadjet element within the Group's fleet to under 15%: prior to the pandemic, quadjets made up some 50% of the group-wide aircraft fleet. In addition to the orders for new aircraft, Airbus and Lufthansa have also signed a Memorandum of Understanding (MoU) to strengthen their cooperation for sustainability and future technologies. This will include the concentrated use of sustainable aviation fuels, the further optimization of operations through a more efficient flight management and exploration into the use of hydrogen.

Engine supply chain issues force Indigo and Go First to ground aircraft

India's low-cost carrier Indigo and ultra-low-cost carrier Go First have jointly been forced to ground over 50 of their jets. The issue has arisen through a major supply chain problem with their engine provider Pratt & Whitney. According to ANI news agency, the U.S.-based engine manufacture issued a statement outlining the current challenges it was facing: "We're experiencing global supply chain challenges which are limiting the availability of structural castings and other parts. We're progressing on our mitigation strategies with our supply base and expanding MRO network capacity while continuing hardware and software upgrades to extend engine time on the wing. At the same time, we're coordinating closely with customers on solutions to minimize operational disruption. We expect supply chain pressures to ease later this year, which will support the output of both production and MRO engines." Currently, a minimum of 25 IndiGo and Go First aircraft are grounded because of P&W engine issues. P&W is unable to secure timely delivery of new engines due to supply chain bottlenecks according to government officials. Indigo has the most aircraft engines scheduled to be changed in the coming days, with around 30 aircraft in its fleet standing by for engine replacement.

MRO & PRODUCTION NEWS

Collins Aerospace to design, develop and build Lilium Jet's inceptors



Collins Aerospace to build the new innovative inceptor system for the Lilium Jet

© Collins Aerospace

Collins Aerospace has teamed with Lilium, developer of the all-electric vertical take-off and landing (eVTOL) jet, to design, develop, and build the Lilium Jet's inceptors – the innovative sidestick system used by the pilot to control the aircraft. Collins is a leader in technologically advanced and intelligent solutions for the global aerospace and defence industry and a Raytheon Technologies business. The Lilium Jet inceptors will provide safe and intuitive handling qualities, easy access to functionalities, and an aesthetic, ergonomic design. While integrating all conventional mechanical and electrical flight controls into two sidesticks, the Collins system brings a new piloting philosophy for single pilot operations in the eVTOL realm. The system will also be designed to bring significant space and weight savings compared to conventional sidesticks. Lilium's collaboration with Collins continues the company's strategy of teaming up with established tier-one aerospace suppliers to support certification and prepare the industrial ramp-up. As part of the supplier agreement, Collins, with its extensive experience in developing and certifying inceptors for commercial jets, will certify the Lilium Jet's inceptors to commercial aviation standards.

HAECO Global Engine Support adds eight-bay gantry system to Dallas facility

HAECO Global Engine Support a leading engine services provider, has added a new eight-bay gantry system at its Dallas facility. This new development also coincides with the addition of new LEAP-1A/1B tooling to support experienced technicians to perform hospital maintenance level work. By mid-March 2023, HAECO Global Engine Support



© HAECO Global Engine Support Dallas gantry

Dallas will perform quick-turn maintenance tasks ranging from top and bottom case repairs to replacements of the radial drive shaft for both LEAP models. In conjunction with this investment, HAECO's installation of a new eight-bay gantry system will now provide 12-plus hospital maintenance bays for both LEAP and CFM 56 engines, along with Pratt & Whitney and Rolls Royce engines. "The HAECO investment in Dallas is paramount to assisting our customers to keep their engines turning. We are committed to providing solutions to our wide variety of consumers," said Jim Clarke, Executive Vice President and General Manager of HAECO Global Engine Support Dallas. In support of the Boeing B737 and Airbus A320 series aircraft, HAECO GES Dallas has strategic alliances with OEMs, engine leasing companies, and key operators. HAECO will leverage its strong domestic airframe repair business with other HAECO Americas facilities in Greensboro, North Carolina and Lake City, Florida.

MRO & PRODUCTION NEWS

Joramco secures maintenance contracts with Air Europa and Cebu Pacific

Joramco, the Amman-based MRO provider has secured maintenance agreements with Cebu Pacific from the Philippines and Air Europa, Spain. The agreement with Cebu Pacific, announced during MRO Middle East, under which Joramco will be performing a C-check on airlines' Airbus A330 aircraft starting this month. The second contract was signed with Air Europa, the third-largest carrier in Spain. Under the new maintenance agreement with Air Europa, Joramco will perform C-checks on four B787 aircraft, nose to tail. This latest collaboration started earlier in February and is scheduled to continue until May of this year. Commenting on the occasion, Joramco's CEO, Fraser Currie, said, "We at Joramco are pleased to announce that for the first time, we will be performing heavy checks on Air Europa's fleet. We are positive that this is the beginning of a long-term collaboration as this step is part of our strategy to expand our footprint in Europe, in addition to servicing the new generation of aircraft with high-quality services."



Joramco will perform C-checks for four Air Europa's B787 aircraft © Joramco

Emirates and Lufthansa Technik sign comprehensive MRO services contracts



Emirates Airbus A380

© Emirates

Emirates and Lufthansa Technik AG have signed two major contracts regarding comprehensive maintenance, repair and overhaul (MRO). MRO services for Airbus A380 long-range aircraft, of which the Dubai-based airline is by far the world's largest operator. In line with one of the new agreements, Lufthansa Technik will overhaul main landing gears of Emirates' double-deck flagships. Additionally, the MRO company will provide the airline with highly flexible extra capacity for A380 base maintenance such as C-checks. The latter agreement marks the first ever outsourcing of heavy checks from Emirates' comprehensive in-house A380 MRO capacities to an external provider. The long-term landing gear services contract will be fulfilled by Lufthansa Technik Landing Gear Services. Over the next 13 years, the specialised workshop in the United Kingdom will overhaul main landing gear shipsets for some of Emirates' superjumbos and in the process restore them to "as-good-as-new" condition before delivering them back to the customer's MRO facilities for

re-installation. The first of these landing gear overhauls is scheduled to begin in August. The additional capacity for A380 base maintenance services will be provided by Lufthansa Technik Philippines (LTP) in Manila, the Lufthansa Technik Group's competence centre for heavy checks on the world's largest passenger aircraft. The first Emirates A380 arrived at LTP at the end of January. To cope with the significantly increased demand for MRO services on the largest commercial airliner type, LTP has recently invested a medium seven-digit USD figure into additional A380 overhaul capacities. These are planned to go online in the second half of 2023 and will initially host additional checks for Emirates.

Etihad Engineering and Collins Aerospace to establish Nacelle Centre of Excellence

Etihad Engineering and Collins Aerospace have announced plans to establish the Collins Nacelle Maintenance, Repair, and Overhaul (MRO) business at a site within Etihad Engineering's aviation maintenance centre of excellence located adjacent to Abu Dhabi International Airport. Etihad Engineering is one of the leading aircraft MRO services providers and a part of ADQ. The company's services include airframe maintenance, component repair, overhaul services and technical training. The establishment of the Nacelle Centre of Excellence in Abu Dhabi will complement the company's existing aircraft maintenance solutions and provide airline customers with an enhanced offering for MRO services in the region and beyond. "We are committed to offer comprehensive aircraft maintenance and engineering solutions under one roof to customers from across the world. Having the Nacelle Centre of Excellence onsite with Collins Aerospace will further enhance our value proposition by making world-class nacelle and thrust reverser MRO services available to our regional and international customers," said Abdul Khaliq Saeed, CEO of Etihad Engineering. "Abu Dhabi is a globally recognised location for the aviation industry and offering Collins' nacelle technology along with Etihad MRO offerings is highly desirable to our international customers," said Dana Stephenson, vice president of Aftermarket for Collins Aerospace. The Nacelle Centre of Excellence will employ a sophisticated global aftermarket team at the site and direct business activities within the MENA region while complying with U.S., European Union, and UAE regulations.



Collins Aerospace and Etihad Engineering plan to open a Nacelle Centre of Excellence in the UAE © Etihad Engineering

MRO & PRODUCTION NEWS

EirTrade Aviation to be the first to disassemble two Boeing 787-8s



EirTrade Aviation undertakes inaugural programme for two 787-8s

© EirTrade Aviation

EirTrade Aviation is a Dublin, Ireland-based global aviation asset management and trading company. On February 28, it has announced it is to manage the disassembly and consignment of the first two Boeing B787-8s to be retired from commercial service. The two ten-year-old Dreamliner aircraft will be simultaneously disassembled. The disassembly process will be coordinated in Prestwick, Scotland and managed by Steven Trowell, Hangar Manager for EirTrade. Trowell predicts that the disassembly process will take roughly three months, with parts expected to be available in late Q1 2023. EirTrade has also been ramping up its aircraft disassembly activities at its facility in Knock, Ireland West, focusing on Airbus and Boeing aircraft. Ken Fitzgibbon, CEO of EirTrade Aviation said that with the first B787s approaching the 12-year check, the dis-

assembly of these two B787 aircraft could not come at a better time for operators and maintenance facilities of the aircraft looking to source used serviceable material (USM) for the aircraft to reduce the cost of maintenance. "As no B787s have been retired from commercial service to date, there is almost no USM market for this platform at the moment. We are entering into a specialist area and hope to become a market leader in the provision of USM for the platform which will enable the reduction of the cost of maintenance events for B787 aircraft owners."

AEROSTAR reaches major milestone with base maintenance of 1,000th aircraft

Romanian aerospace company AEROSTAR has reached an important milestone by completing base maintenance for the 1,000th aircraft since the opening of the commercial MRO business. The aircraft is a Boeing 737-8 MAX from Czech airline Smartwings. It is undergoing a C-check and is scheduled for delivery on 6 March. AEROSTAR has been an EASA Part 145 approved commercial aircraft maintenance organisation since January 2007, with an extensive range of authorisations from other civil aviation authorities, including the FAA. It has made a significant mark in terms of business volume in the commercial MRO field, being an independent provider of maintenance services for the Airbus A320ceo/neo and Boeing 737 aircraft families. Recently, the Boeing 737-7/8/9 MAX models have been added to the portfolio. In almost 20 years of acting as commercial MRO, the Romanian aerospace company has continuously developed and increased its capabilities. It currently has two facilities, at Bacau (with seven bays) and Lasi (with three bays, opened in 2020). AEROSTAR has confirmed its position as a leading independent provider of MRO services in the region. Accomplishment of the 1,000th base maintenance events crowns almost two decades of professional performance.



© AEROSTAR

FINANCIAL NEWS

SuperJet International continues activities with new UAE shareholder


© SuperJet

SuperJet International (SJI), an Italian aviation company based in Venice, will continue its activities with a new UAE shareholder. Mark AB Capital Investments (Mark AB), based in the United Arab Emirates, and the Russian United Aircraft Corporation (UAC), have signed an agreement which provides for the sale by UAC to Mark AB of its entire 49% stake of SJI shares and therefore its entire participation in the SuperJet 100 project. With the perfection of this agreement, UAC shall effectively exit the SuperJet programme. The acquisition by Mark AB of the shares in SJI will be possible only after receipt of the necessary approvals from the Italian and Russian governmental bodies (i.e., the Financial Security Committee). Only these authorisations will permit the unfreezing of SJI's shares and assets. Following receipt of such authorizations, the new shareholding structure of SJI will be comprised of: Mark AB Capital (49%), Studio Guidotti International (41%), Leonardo (10%). The CEO of SuperJet International, Camillo Perfido, stated: "This agreement – has a great value for our company, as the interruption of industrial and commercial relations with UAC will allow the company to no longer be burdened by the limitations resulting from the sanctioning regulations set by the European Union. SJI will once again demonstrate the excellent technical skills of its employees, who have managed to face a difficult period with integrity and

a sense of responsibility". The entry of the new shareholder, and the unfreezing of SJI's shares and assets, represent mandatory pre-requisites, without which the relaunch plan cannot be implemented. This relaunch plan was drawn up together by SJI and Mark Capital AB and envisions investments of €190 million, of which €110 million will be at the Venice site. Such an investment will make it possible to support the development of new aircraft configurations, the construction of the new SJI branch in the United Arab Emirates (UAE), as well as the continuous development of the aircraft to address market competition. To support both industrial and commercial activities, the new corporate organisation provides for a progressive increase in the work force, with particular reference to specialists, which, at the stabilization phase, will reach 400 units in Venice, and 800 in total, when including the new UAE branch. In Venice there are presently approximately 110 employees, down from 250 in prior years, firstly due to the pandemic, but mainly due to the effect of the sanctions. Sales forecasts are estimated to be 240 aircraft at a minimum, in different versions: passenger, business jet and cargo, most of which will be destined for the UAE and Indian markets. From an industrial point of view, the programme will be based at the Venice site and at the new branch in the UAE. The Venice headquarters will manage the pro-

gramme's direction, responsibility for the management of the product and the related ENAC/EASA certifications. SJI's Venice site shall become both the Design Organization Authority – DOA, for the "Type" certification of the aircraft, and therefore with the capability to carry out the development of new aircraft configurations (business jet and cargo), and the Production Organization Authority – POA, with complete control of the entire supply chain. The Venice site shall also retain responsibility for marketing and sales activities, installation of aircraft options, pilot and crew training, final flight tests, deliveries, and customer support. SJI will establish its new branch in the UAE at the Al Ain international airport and will be the production plant of the Superjet 100 in its basic green version; the green aircraft will then transfer to Venice for completion, and the activities for which the Venice site is responsible. This agreement could also represent an important opportunity for the national aeronautical industry, considering that the UAE does not yet have a sufficiently mature industrial complex covering the various aeronautic disciplines. Therefore, in an initial phase, it will be possible to make use of the available national aeronautical subcontractor base, with particular reference to the production of engine parts and aero structures, as well as engineering support for the nascent UAE aeronautical industry. (£1.00 = €1.13 at time of publication).

FINANCIAL NEWS

IAG to complete full purchase of Spain's Air Europa for €400 million



Air Europa will soon belong to the International Airlines Group (IAG) © Air Europa

International Airline Group (IAG), the parent company of British Airways, Aer Lingus and Iberia, has confirmed its intention to acquire the remaining 80% of shares in Spain's Globalia offshoot, Air Europa. Having agreed in March 2022 to grant Air Europa a €100 million loan that was convertible into a 20% stake, this latest move sees the culmination of a deal that began back in 2019. It had been IAG's intention to pay €1 billion for Air Europa back then in order to build

a major hub in Madrid, but then the COVID-19 pandemic disrupted the airline industry and concerns over antitrust regulations saw the deal sidelined. With Air Europa having been hit particularly hard by the pandemic, both companies subsequently agreed to cut the sale price in half, though until IAG provided the €100 million in March 2022, negotiations had all but come to a standstill. It is understood that the first €200 million will be paid once the deal gets the go-ahead from antitrust authorities. Another €100 million will be paid in IAG shares while the final €100 million will be paid in cash. With the acquisition of Air Europa, which will keep its branding and be managed by Iberia, IAG is looking to improve its position in the Latin American market and expand into Asia, while allowing its Madrid hub to compete with other major airports in Europe. According to Globalia, the current Air Europa fleet consists of 50 aircraft comprising 787 Dreamliners and Boeing 737s, while a further 15 aircraft are on order. The deal is expected to conclude within the next 18 months. (£1.00 = €1.13 at time of publication).

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MRO & PRODUCTION NEWS

ST Engineering opens new aircraft maintenance hangar in Pensacola

ST Engineering has officially inaugurated a new aircraft maintenance hangar at Pensacola International Airport. The new facility is the second of four hangars at an airframe maintenance, repair and overhaul (MRO) complex being developed by ST Engineering. The new 177,000 ft² hangar features two bays capable of accommodating wide-body aircraft, effectively doubling ST Engineering's existing capacity in Pensacola and further solidifying its presence in the region. The hangar, which currently supports a major customer's Airbus A300 programme, started operations in January this year. When fully operational, it is expected to generate over 400 new high-value job opportunities for the local community. The airframe MRO complex that the new hangar is a part of is a project co-funded by ST Engineering, Triumph Gulf Coast, Inc., the City of Pensacola, Escambia County, the State of Florida and various state and federal organisations. Upon completion, the complex will have a capacity of over two million man-hours and is projected to generate over 1,700 jobs, including skilled positions such as aircraft inspectors, airframe and powerplant technicians, as well as interior and avionics technicians. Construction of the third and fourth hangars is slated to commence in the latter half of the year.

AMP Aero Services opens new office in Dubai

AMP Aero Services, headquartered in Miami, Florida, has opened its Dubai, United Arab Emirates office located in the "green" trade zone in Dubai South. Over the last two years, AMP Aero has seen significant growth and demand for material in the Middle East Region. Currently AMP Aero Services has offices in Miami, Kansas City, New Delhi India, Istanbul, and Hong-Kong. "The addition of the Dubai office was an easy decision. We have experienced heavy demand for material, and it made sense to position our team and material in the UAE," said Ambalik Agarwal, AMP Aero Services Managing Member. This location is strategically positioned to serve the Middle East Region and will distribute material with a full sales and support staff.

Joramco and Emirates ink new maintenance agreement

Joramco, the Amman-based maintenance, repair and overhaul (MRO) provider has inked a new maintenance deal with Emirates, one of the largest Boeing 777 fleet operators. Under the agreement, Joramco will perform nose-to-

MILITARY AND DEFENCE

Embraer signs service agreement with Philippine Air Force



Embraer will support the Philippine Air Force's A-29 Super Tucano fleet
© Embraer

Embraer has signed a service agreement with the Philippine Air Force to support its fleet of A-29 Super Tucano aircraft. This agreement will provide support for more than 200-part numbers of the A-29 Super Tucano. "Staying close to our customers and supporting them in their missions is core to what we do," said Rinaldo Piubeli Prado, Vice President of Worldwide Defence & Security Customer Support & Aftermarket Sales, Embraer Services & Support. "Leveraging on our customer support team in Asia Pacific, we are honoured to support the Philippine Air Force as they deploy the A-29 and utilise it to its fullest potential." The Philippine Air Force's fleet of six A-29 Super Tucano aircraft were delivered in 2020 during the global pandemic, reflecting Embraer's commitment to the Philippine Air Force. These aircraft are operated and maintained by the Philippine Air Force's 15th Strike Wing. Last year, Embraer's worldwide fleet of A-29 Super Tucano aircraft reached 500,000 flight hours. With more than 260 units delivered, the aircraft has already been selected by more than 15 air forces worldwide.

tail C-checks and modifications on B777 aircraft from the airline's fleet. This latest collaboration will commence in March 2023 and will continue until June of next year. Commenting on the deal, Joramco's Chief Executive Officer, Fraser Currie, said: "We are delighted that Emirates has entrusted Joramco to maintain its B777 aircraft. This latest agreement further reaffirms our capabilities as a reliable and experienced MRO [provider] that provides services at the highest of standards. With our commitment to providing high-quality services and delivering premium customer service, we are positive that this opportunity is only the beginning of a fruitful and long-term journey together."

Collins Aerospace to lead consortium to develop thermoplastics for liquid hydrogen tanks

Collins Aerospace has been selected under the Clean Hydrogen Joint Undertaking to lead a consortium working to develop new thermoplastics technology for the liquid hydrogen tanks necessary to power hydrogen propulsion architectures in future, more

sustainable aircraft. The Collins-led consortium will bring together Collins' sites across France, Italy, United Kingdom, Poland, the Netherlands, U.S. and Ireland along with NLR, Delft University of Technology, ATR, Novotech, and Unified International. While liquid hydrogen contains approximately three-times as much energy per kg as traditional jet fuel, it has a lower specific density meaning that it requires nearly four-times as much volume to match the energy content of the same mass of traditional jet fuel. To overcome this, thermoplastic tank structures are in development. This strong, yet lightweight tank design is the focus of the new project. "The COCOLIH2T project addresses the challenges of shifting from traditional jet fuel to a fully sustainable, clean burning hydrogen fuel" said Mary Lombardo, Vice President, Advanced Technologies at Collins Aerospace. "Compared with traditional fuel tanks, hydrogen tanks must reduce weight and enable containment of cryogenic fluid. COCOLIH2T is the kind of aerospace industry cross-collaboration Collins is focused on to reduce the environmental impact of aviation and lead us to a sustainable future." This project has the potential to go beyond by designing and manufacturing a disruptive

MRO & PRODUCTION NEWS

tank through novel fabrication technologies enabling a 60% reduction in production energy consumption and at least 50% in production time leading to significantly lower manufacturing costs. Thermoplastic composites are advanced materials known for their durability and unique manufacturing characteristics. The material is lightweight, suitable for extreme temperatures and has the capacity to be recycled. Collins is developing technologically advanced materials for the future of sustainable commercial aviation.

FINANCIAL NEWS

Rex posts half-year results

Rex, (Regional Express Holdings Limited), has posted an after-tax loss of A\$16.5 million for the six months ended December 31, 2022 (1HFY23), an improvement of 55% over the prior corresponding period. This loss includes a negative impact of A\$23 million related to mark-to-market valuation of the convertible note and warrant facility entered into with PAG in 2020. This loss is not cash in nature and was brought about by the increase in value of Rex shares. Operating loss after tax for the period was A\$1.9 million but cash in bank almost doubled compared to the prior period. Domestic jet services returned to monthly profitability in September 2022, a mere seven months after the full resumption of domestic services (February 2022). Domestic operations achieved consistent growth for four consecutive months to the end of the period. Regional services have been positive at EBITDA level for the last four months of the period and are expected to return to monthly profitability in Q3FY23. Revenue (excluding government grants) for the period improved by 282.2% against the same period last year. Government grants and subsidies declined by 93% to A\$1.9 million. (£1.00 = AU\$1.79 at time of publication).

OTHER NEWS

Wizz Air Abu Dhabi, the ultra-low-fare national airline of the UAE, is ramping up operations to meet high-demand and expanding its modern, sustainable fleet. With nine state-of-the-art Airbus A321neo aircraft, the airline is driving ambitious growth into new territories with must-see destinations for adventure lovers carrying the flag of ultra-low-cost travel. The additional aircraft will enable the carrier to enhance frequencies and offer tourists and residents hassle-free, affordable travel in both the UAE and throughout multiple continents to the very best

MILITARY AND DEFENCE

Boeing sets F/A-18 production completion date



Boeing will complete new-build production of the F/A-18 Super Hornet fighter aircraft in late 2025
© Boeing

Boeing expects to complete new-build production of the F/A-18 Super Hornet fighter aircraft in late 2025 following delivery of the final U.S. Navy fighters. Production could be extended to 2027 if the Super Hornet is selected by an international customer. To meet demand for defence products and services, Boeing plans to continue hiring year-over-year for the next five years at its St. Louis site. More than 900 people were hired in the region last year. The F/A-

18 production decision allows Boeing to support work on the next generation of advanced crewed and uncrewed aircraft. Boeing plans to build three new, state-of-the-art facilities in St. Louis. These facilities, as well as the new Advanced Composite Fabrication Centre in Arizona and the new MQ-25 production facility at MidAmerican St. Louis Airport, represent more than a US\$1 billion investment. Boeing has invested US\$700 million into St. Louis infrastructure upgrades during the past decade, enabling the introduction of new design-and-build techniques streamlining processes and improving first-time quality. Boeing St. Louis will increase production of the world's first all-digital training system, the T-7A Red Hawk and the world's first carrier-deployed autonomous refuelling aircraft, the MQ-25 Stingray, along with ongoing production of new F-15EX Eagle IIs and 777X wing components. Boeing will continue to develop advanced capabilities and upgrades for the global F/A-18 Super Hornet and EA-18G Growler fleet. Throughout the next decade, all Block II Super Hornets in Service Life Modification will receive the Block III capability suite. Boeing will also continue to add advanced electronic attack capability as part of ongoing Growler modifications. Since the F/A-18 debuted in 1983, Boeing has delivered more than 2,000 Hornets, Super Hornets and EA-18G Growlers to customers around the world including the U.S. Navy, Australia, Canada, Finland, Kuwait, Malaysia, Spain and Switzerland. (£1.00 = US\$1.21 at time of publication).

INFORMATION TECHNOLOGY

Ocean Explorer, a Brazilian helicopter operator and **Embraer** have signed a commercial agreement for the use of Beacon, the maintenance coordination digital platform that connects resources and professionals for a faster return-to-service. Ocean Explorer is the first helicopter operator to use Beacon to help bring contextual communication between its maintenance teams and external partners, simplify flows and improve maintenance operations.



Ocean Explorer will use Beacon the maintenance coordination digital platform
© Embraer

"Beacon is the ideal solution for Ocean as we seek for a smarter and digital maintenance operation. With Beacon, our team can communicate with maintenance centres, engine maintenance representatives, and other external partners in real-time without the trouble of searching for information on emails and phone calls. We need to make sure the helicopter is always available, so keeping information safe and accessible to everyone involved is critical", said Daniel Braz, General Manager at Ocean Explorer do Brasil. Ocean Explorer is a Brazilian helicopter aircraft management company, which operates an Airbus ACH160, one of the most sophisticated and technological helicopters. Brazil has more than 2,000 helicopters flying every day and São Paulo has the largest fleet in the world among cities, with more than 400 aircraft and 2,200 daily take-offs and landings, according to a survey carried out by the Brazilian Association of Helicopter Pilots (Abraphe).

OTHER NEWS

destinations. Wizz Air Abu Dhabi has a plethora of year-round travel opportunities with culturally rich destinations including vibrant cities and natural paradises. Set to launch this summer, the national airline is commencing operations to Bishkek, Kyrgyzstan and the relaunch of popular routes to Larnaca, Santorini and Sohag, Egypt. On top of the new destinations, the new aircraft will enable the carrier to increase the ultra-low-cost-travel footprint in the current network with increased presence in Abu Dhabi – Tirana, Yerevan, Baku, Alexandria, Kutaisi, Athens, Almaty, Astana, Sarajevo, Ankara, Tashkent and Samarkand.

Air cargo tonnages from Asia Pacific recovered strongly in the beginning of February from the annual Lunar New Year holiday downturn and the following three weeks have shown a worldwide market stabilisation, after months of demand and rate declines, the latest preliminary figures from WorldACD Market Data indicate. Figures for week 8 (20 to 26 February) show a small decrease (-2%) in worldwide tonnages compared with the previous week. On the pricing side, global average rates increased slightly (+1%) compared with the previous week, although there were some strong variations in the underlying regional trends, particularly related to Asia Pacific and Africa. Comparing weeks 7 and 8 with the preceding two weeks (2Wo2W), tonnages are slightly down (-1%) below their combined total in weeks 5 and 6, accompanied by a +2% increase in capacity, whereas average worldwide rates remained

Fraport AG Ground Services is currently trialling an autonomous baggage and cargo tractor. The electric vehicle will operate on an eight-kilometre-long test route within Frankfurt Airport's secure area. The aim of the trial, which will take several weeks, is to determine whether and under what conditions an autonomous vehicle can support regular baggage and cargo operations on the apron. Eric Agthe, Project Manager for Process and Product Development at Fraport, says: "Autonomous vehicles are a very promising future option for us as an airport operator. We've already trialled self-driving vehicles in some areas. But deployment on the apron on such a long route is a completely new dimension. Safety will be the top priority during the trial. The fact that we are tackling these kinds of innovative projects, despite the challenging operating conditions, once again emphasizes our role as a future-focused company." The test route starts in the eastern section of Frankfurt Airport's apron in the baggage handling facility at Terminal 2, before heading southwards and approaching the future Terminal 3. The trial section is divided into three components, each of which present particular challenges for the autonomous vehicle. These include operations inside the baggage handling facility amidst other traffic and people, as well as in the open where there are few other vehicles. To ensure the outcome reflects real-life conditions with sufficient complexity, the test drives will take place both during the day and at night, in different types of weather. During the test operations, the vehicle will operate at a maximum speed of 13 kilometres per-hour and will tow a maximum of three baggage trailers or two large cargo trailers. A safety driver who has received special training and certification for the project will be present on each test drive. In an emergency, this person will immediately be able to react and actively intervene if an unplanned situation should occur. Autonomous vehicles could provide significant support in daily ground-handling operations. Dennis Stein, Vice President Division Development, Logistics, and IT, says: "For Fraport, this project is of high importance because of its potential to facilitate more efficient deployment of staff in the future. Due to the size of the airport apron, our employees often have to cover long distances. If parts of these routes could be operated using autonomous vehicles, this would give the ground services teams more flexibility to handle flights even more efficiently." The trial with the autonomous baggage and cargo tractor will run until the end of March 2023.



© Fraport tests autonomous baggage and cargo tractor

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OTHER NEWS

stable – based on the more than 400,000 weekly transactions covered by WorldACD's data. At a regional level, on a 2Wo2W basis, the post-Lunar New Year recovery in air cargo tonnages was still very notable on ex-Asia Pacific flows to Middle East & South Asia (+22%), Europe (+16%), and North America (+10%), respectively. The most-notable decreases were recorded from Central and South America to North America (-20%) and from Africa to Europe (-11%), linked to the annual spike in flower shipments ahead of Valentine's Day on February 14. Despite volumes rebounding in recent weeks, on the pricing side the average rates for flows originating in Asia Pacific have continued to show a negative trend, particularly on intra-Asia Pacific (-5%) and to the Middle East & South Asia (-5%).

INDUSTRY PEOPLE



Ashwin Bhat

• **Ashwin Bhat**, Chief Commercial Officer at Lufthansa Cargo, has been newly elected to the SWISS Board of Directors at the company's annual general meeting. He succeeds **Christina Foerster**, who

remains a member of the Lufthansa Group Executive Board and also interim CEO of Brussels Airlines. New Board member Bhat has been Chief Commercial Officer at Lufthansa Cargo since March 2021. In this capacity he is responsible for the external organisation of Lufthansa Cargo's sales and handling, product, revenue management, pricing, network planning and sales management worldwide, and also for the platform management of Austrian Airlines, Brussels Airlines and Eurowings. Prior to his present function, Bhat headed SWISS's Zurich-based Swiss WorldCargo division, a position he had assumed in October 2015. He had originally joined the then Swiss-cargo AG in February 1999, and went on to occupy various executive positions in fields such as revenue, transportation and global area management. Holding a degree in chemistry, Bhat commenced his professional career in 1992 when he joined Mumbai (India)-based Airline Financial Support Services as a cargo & mail revenue accounting manager. The SWISS Board of Directors now comprises **Reto Francioni** (Chairman), **Doris Russi Schurter**, **André Blattmann**, **Remco Steenbergen** and its new member **Ashwin Bhat**.



Ground breaking held at JetBlue's JFK maintenance hangar
© Office of the Governor of New York

New York City-based **JetBlue** has celebrated a key milestone in the Port Authority of New York and New Jersey's transformation of JFK International Airport (JFK) with the ground-breaking of a US\$4.2 billion project to develop a new international Terminal 6. The ground breaking, held at JetBlue's JFK maintenance hangar, only reinforces the airline's commitment to JFK, Queens and New York. The new Terminal 6 will connect seamlessly

with JetBlue's current home at Terminal 5, adding gates and opportunity for the airline to add flights, destinations and partner airline connections. The project is a public-private partnership between the Port Authority of New York and New Jersey and JFK Millennium Partners – a consortium that includes JetBlue, Vantage Airport Group, an industry-leading investor, developer, and manager of award-winning global airport projects, including LaGuardia Terminal B; American Triple I, a certified minority-owned investor, owner, developer, and manager of infrastructure assets; and New York real estate operating company RXR. The new terminal will mark a next chapter for New York's Hometown Airline® at the same time it prepares to expand as a result of its planned merger with Spirit Airlines. The start of construction of Terminal 6 follows the successful financial close of the deal in November 2022 between the Port Authority and JFK Millennium Partners to build the 1.2 million ft², new international terminal on the airport's north side. According to estimates, the project will create approximately 4,000 jobs, including 1,800 union construction jobs and direct wages of US\$1.9 billion. The new terminal will be developed in two phases, with the first new gates opening in 2026 and construction completion in 2028. The 1.2 million-ft² Terminal 6, will have capacity for ten gates – including nine wide-body gates. Customers will enjoy more than 100,000 ft² of world-class shopping and dining featuring locally based restaurateurs, craft beverage options and Taste of NY stores.

Sabre has announced a new agreement with Korean low-cost carrier (LCC) **Jin Air**. The deal will support Jin Air in powering future revenue growth, while enriching content for Sabre-connected travel agents around the world. Under the multi-year agreement, Jin Air will be able to put its offers and fares in front of hundreds of thousands of Sabre-connected travel agents globally, while agencies will be able to book and ticket Jin Air content via Sabre's Global Distribution System (GDS). Launched in 2008, Jin Air has an extensive domestic route network, as well as connections across Asia, including to destinations in Japan, China, Thailand, Vietnam, and Malaysia.



Jin Air will join Sabres portfolio of LCCs in South Korea

© AirTeamImages

INDUSTRY PEOPLE



Jan van Engelen

• MAAS Aviation has appointed **Jan van Engelen** as Chief Executive Officer from March 1, 2023. An accomplished executive and board member, Van Engelen has over 25 years of international experience in the aviation services industry. He succeeds **Tim Macdougald**, who has held the position of CEO at MAAS since 2017. Macdougald will remain active on a day-to-day basis, leading MAAS' further growth initiatives as Chief Business Development Officer. In this new role, Macdougald will also continue to support the senior leadership team, and all colleagues at MAAS' global facilities, utilising the skills and expertise he has gained over his last 14 years with the business. With a proven track record of forging long-term strategic partnerships and alliances, Van Engelen joins MAAS from a diverse and extensive background in the aviation sector, most recently holding the position of CEO for Continental Europe of the ground handling and aviation services company, Swissport. Prior to this, he held various senior positions within CAE, a global leader in aviation training services. In his new role as CEO at MAAS, Van Engelen will be responsible for leading the team in pursuit of its strategic plan to drive sustainable growth and to build and foster new and existing long-term partnerships. Van Engelen holds degrees in Aeronautical Engineering and Business Administration. He is an INSEAD, Global Executive Program alumni, and is a graduate of the College Program of non-executive board members.



Alan O'Rourke has been appointed CFO of @ LCI

• LCI, a leading aviation company and a subsidiary of Libra Group, has appointed **Alan O'Rourke** to the position of Chief Financial Officer (CFO). O'Rourke was previously LCI's Senior Vice President, Finance, based in the lessor's London office and was responsible for developing relationships with LCI's financial partners to source and originate capital for the organisation. Prior to becoming SVP

Finance, O'Rourke worked for five years with the accounting team at LCI's Dublin headquarters where he was responsible for management reporting, transaction accounting and system implementations. In his new role as CFO, he will be responsible for LCI's financial strategy, treasury management, and regulatory standards. He will also oversee the finance, tax and accounting divisions and utilise the latest suite of digital tools for on-going reporting and governance. Effective April, O'Rourke will replace **Praveen Vetrivel**, who has been appointed CFO of LCI's parent company, Libra Group. **Jaspal Jandu**, CEO of LCI, says: "Alan O'Rourke's wealth of experience, deep knowledge of our business, and strong relationships with the financial community, make him a natural choice in this important role. I have no doubt he will be a valuable addition to LCI's senior management team, and will ensure a robust, far-sighted and modern approach to our financial strategy," adding, "I am personally grateful to Praveen for the invaluable role he has played in growing our business and wish him well in his new role at Libra Group."



Howard McKenzie has been appointed Chief Engineer @ Boeing

• Boeing Co has announced that the company's Chief Engineer, **Greg Hyslop**, is to retire after a 41-year career with Boeing. Hyslop has held the position since 2019. He is also the Executive Vice President of Engineering, Test & Technology, and has been on Boeing's Executive Council since 2016. Hyslop has striven to strengthen Boeing's engineering function. He oversaw the realignment of the company's engineers under one organisation, having championed changes that would engineers, while also instituting next-generation design practices. **Howard McKenzie** is currently the top engineer at Boeing's commercial airplanes unit and is set to succeed Hyslop in June this year as Chief Engineer and Executive Vice President, Engineering, Test & Technology. As of March 1, McKenzie will take over leadership of the company's 57,000 worldwide engineers and oversee all aspects of safety and technical integrity of Boeing products and services. He will also be assuming oversight of Boeing's technology vision, strategy and investment, while reporting to **David**

Calhoun, Boeing's CEO, and joining the company's executive council. McKenzie will help with programme management, leadership development and university relations efforts. Prior to promotion to his current role with Boeing Commercial Airplanes (BCA), McKenzie was Vice President and Chief Engineer of Boeing Global Services, the American planemaker's services and support business. Mackenzie has been with Boeing for 35 years has also served as Vice President of Boeing Test & Evaluation, the group responsible for testing, evaluating and certifying new products. **David Loffing**, who is currently the Chief Programme Engineer of Boeing's new 777X airplane, will take over as Vice President and Chief Engineer of BCA. Loffing has been with Boeing for nearly 20 years, holding engineering leadership positions across the company's single- and twin-aisle jet families and future airplane concepts.

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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

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
(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
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				
(3) 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
(1) CFM56-7B27E/B1F	Now - Lease				
(1) CFM56-7B26	Now - Lease				
(1) CFM56-7B26/E	Now - Lease				
(1) CFM56-7B27/B	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) CFM56-5B4/3	Now - Sale / Lease	GA Telesis		engines@gatelesis.com	
(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
(3) LEAP-1B28	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
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.				
(4) 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@ftaiairline.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				
(1) V2527-A5	Now - Sale / Lease	GA Telesis		engines@gatelesis.com	

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	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) APS3200 (1) GTCP331-200ER, (2) RE220RJ (2) GTCP36-150RJ	Now - Sale/Lease/Exch. Now - Sale / Lease Now - Sale/Lease/Exch. Now - Sale/Lease/Exch.	BBAM DASI Regional One	Steve Zissis Chris Glascock Miguel Bolivar	info@bbam.com chris.glascock@dasi.com mbolivar@RegionalOne.com	+1 787 665 7039 +1 954-801-3592 +1 954-683-1893
Neutral V2500-A5 QEC Kits (2) 745K9001-64 (4) 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 - Sale / Lease	ASI Aero GA Telesis Willis Lease	Dean Morgan Jay Meshay Gavin Connolly	deanm@asiaero.net apu@gatelesis.com gconnolly@willislease.com	+1 561-771-4253 +1-954-849-3509 +1-954-676-3111 +44 1656 765 256
(3) APU GTC131-9B, (1) GTCP331-500B Engine stands now available (2) PW901A, (1) PW901C(1), PW125B RGB	Now - Sale / Lease Now - Lease Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368



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