

Weekly Aviation Headline News

WORLD NEWS

Emirates goes digital with boarding passes

Emirates will require most passengers departing Dubai to use a mobile boarding pass instead of a printed paper version, from 15 May onwards. According to the airline, this initiative will significantly reduce paper waste while simultaneously offering a convenient and speedy digitised check in experience for passengers departing Dubai and it reduces the risk of lost or misplaced boarding passes. The option to print a boarding pass will be available by request to Emirates agents at check-in counters.

Etihad Cargo awarded advanced rating by TIACA

Etihad Cargo has achieved a major milestone in its sustainability journey, achieving advanced ratings for key criteria in the BlueSky Sustainability Verification Programme assessment. The carrier was the first Middle Eastern airline to join the programme, which aims to assess, verify and validate the sustainability performance of air cargo carriers. Etihad Cargo completed an evidence-based desktop verification assessment in which independent validators assessed the carrier's sustainability initiatives and programmes against eight key objectives.

Kenya Airways Cargo receives CEIV Certification

Kenya Airways Cargo has achieved the Centre of Excellence for Independent Validators (CEIV) Pharma certification by the International Air Transport Association (IATA) for its KQ Pharma Facility. This certification recognises Kenya Airways' consistent ability to safely transport high-value, temperature-controlled, and time-sensitive pharmaceuticals in line with the requirements of shippers. The CEIV Pharma certification is a globally recognised certification for pharmaceutical product handling.



Ryanair will reportedly pay more than planned for the new MAX 10s.

© Boeing

Ryanair boosts Boeing coffers with \$40bn order

Placing new focus on higher capacity B737 MAX 10s

Ryanair made the headlines in the past week with a record order for 300 Boeing 737MAX aircraft (150 firm and 150 options) for delivery between 2027 to 2033. The airline says when finalised, and subject to all options being exercised, this deal is valued at over \$40bn at current list prices and is the largest order ever placed by an Irish company for US manufactured goods.

Aviation analysts at IBA have suggested that while Ryanair is yet to report its full year results for 2022 (March accounting year). However, its Q1-3 performance was record-breaking. They had a net profit of EUR€1.5bn with a net margin of 16.4%.

Ryanair had hedged long in advance of the oil price volatility last year. This gave them a saving at the operational level compared to peers, while their low leasing and

broader debt meant that most of that operating profit trickled down to the net level. A nine-percentage point increase in load factor (up to 93%) also helped.

According to IBA, such a performance is a good time to get the backing for large investment com-

This up gauging of the fleet will be to up capacity, with the slot constraints in European airports in mind. Higher seating capacities do also put strain on turnaround times, although Ryanair's principal use of secondary airports may afford slightly more flexibility.

In addition to delivering significant revenue and traffic growth across Europe, Ryanair Group CEO, Michael O'Leary, said he expects these new, larger, more

efficient, greener, aircraft to drive further unit cost savings, which will be passed on to passengers in lower air fares.

A final note is on how O'Leary was very public on how the airline will pay more than they planned for these aircraft, despite the order scale. This was to secure more near-dated delivery slots as IBA observed.

This up gauging of the fleet will be to up capacity, with the slot constraints in European airports in mind - IBA

mitments, as seen here. However, the nature of this order is also significant to their strategy. These orders are for the larger MAX 10 variant. Ryanair's current 737 MAX fleet has 197 seating capacity, compared to 189 seats in the 737-800 fleet, while the newly ordered aircraft are expected to be delivered in a 228-seat configuration.

AIRCRAFT & ENGINE NEWS

NAC executes sale agreement for four Dash 8-400s with Sky Alps

Nordic Aviation Capital (NAC) has executed a sales agreement for four Dash 8-400s with Sky Alps, an Italian airline based in Bolzano.

Nexus takes delivery of first A321-200 aircraft for cargo conversion

Nexus Aviation Ventures has taken delivery of MSN 2919, a 2006 A321-200 aircraft, the first of two aircraft slated for cargo conversion. The aircraft will promptly be flown to Xiamen, China where it will undergo passenger-to-freighter conversion with 321 Precision Conversions. MSN 2919 is the first aircraft for Nexus Aviation Ventures and will be available for lease in the first quarter of 2024. Nexus will be taking delivery of the second aircraft, a sistership to MSN 2919, in July of 2023. The aircraft will also undergo cargo conversion in Xiamen and will be available in Q2 2024. "We are thrilled to conclude this initial transaction and look forward to the continued growth of the Nexus fleet" said Kevin McCullough, President of Nexus Aviation Ventures. Nexus Aviation Ventures is a joint venture between AMTRA Aero and Nehalem Aviation Holdings. Nexus will source, convert, and lease A321 freighters to the cargo markets.

Falko provides summary of first-quarter market activity

Falko Regional Aircraft Limited (Falko), the asset manager and aircraft lessor focused solely on the regional aircraft sector, has provided a summary of its first-quarter 2023 market activity. Falko added four aircraft to its portfolio during the quarter and one aircraft was sold. Five aircraft were delivered on lease to customers during the quarter (including four acquired through sale-and-leaseback transactions) with lease extensions concluded on six aircraft. Purchase documentation was signed relating to the acquisition of four aircraft on lease to a North American carrier with completion expected in the second quarter. In addition, LOIs were

Orders and deliveries – Boeing and Airbus

Airbus v Boeing: Orders and Deliveries

April 2023 YTD

Airbus			Boeing		
Type	Orders	Deliveries	Type	Orders	Deliveries
A220	12	16	737	15	131
A320 Family	89	148	747	0	1
A330	1	8	767	15	2
A350	42	9	777	1	5
A380	0	0	787	38	17
Total	144	181	Total	69	156

Source: Airbus

Source: Boeing

Airbus generated only 5 orders in April, all in the A320 NEO family for undisclosed operators while delivering 54 aircraft, these were also predominantly narrowbodies.

Boeing has reported 54 orders in April, a mix of B737 MAX, B777F, and B787s - the bulk headed for undisclosed customers. The OEM delivered 26 airframes across the full commercial production line including a B767-300F for FedEx.

Emirates SkyCargo adds two Boeing 747-400Fs to its freighter fleet



Emirates SkyCargo has added two Boeing 747-400Fs to its fleet

Emirates

Emirates SkyCargo has added two Boeing 747-400Fs to its freighter fleet, showing its strong confidence in the global cargo market in a current environment of volatility. The cargo division of Emirates is expecting 15 more freighters to join its fleet from announced orders and its freighter conversion programme, plus a boost in belly-hold capacity from new passenger aircraft deliveries starting with Airbus A350s in late summer 2024, followed by 777-Xs the year after. Over the next decade, Emirates SkyCargo expects to double its existing capacity, add over 20 new destinations to its freighter network and offer even more flexibility and services to its customers with a fleet mix of over 300 wide-body aircraft comprising: Boeing 777s, 777-Fs, 747-Fs, Airbus A350s and A380s. Nabil Sultan, Divisional Senior Vice President, Emirates SkyCargo said: "While the current market volatility may cause others to hesitate, Emirates SkyCargo is pushing full steam ahead with our plans. The medium- to long-term projections for global air cargo show an upward trajectory of between 3-5%. Combine that Dubai's strategy to double its foreign trade where multi-modal logistics will play a big role, and the economic activity happening in markets around the Gulf, West Asia, and Africa, and the opportunity for Emirates SkyCargo is clear". Secured on a long-term wet-lease basis, the two Boeing 747-Fs complement Emirates SkyCargo's existing fleet of 11 Boeing 777 freighters and are currently being deployed to Chicago three-times weekly and to Hong Kong nine-times weekly.

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signed in relation to the sale of one aircraft, the placement on lease of four aircraft and lease extensions relating to three aircraft. Activity was focused on the regional jet sector with deals covering both the CRJ and E-Jet products. Lease demand was particularly strong from European carriers reflected in the number of lease extensions transacted in the first-quarter 2023. In addition, four new Embraer E195-E2 aircraft were delivered on lease to Porter Airlines in Canada. As of March 31, 2023, Falko's portfolio totalled 263 aircraft on lease to 45 customers worldwide.

Ryanair opts for CFM LEAP-1B engines to power newly ordered Boeing 737-10 aircraft

Ryanair and CFM International have signed a Letter of Agreement (LoA) for the purchase of LEAP-1B engines to power 150 Boeing 737-10 aircraft. The LoA also includes spare engines and options for 150 additional aircraft. Ryanair has been a CFM customer since 1998, operating the largest fleet of CFM-powered Boeing airplanes and the largest CFM56-7B-powered Boeing Next-Generation 737 fleet in Europe. The Irish-based airline currently operates a fleet of 103 LEAP-1B-powered 737-8- 200 aircraft. "We are honoured by Ryanair's renewed trust in our products and in our teams," said Gaël Méheust, President and CEO of CFM International. "We look forward to continuing to support Ryanair's fleet development by providing them with the best standards in terms of reliability, sustainability and maintenance." Since entering service, the LEAP-1B engine has accumulated nearly ten-million flight hours and four-million cycles. The advanced CFM LEAP engine family is providing more than 15% better fuel consumption and lower CO2 emissions, as well as a significant improvement in noise compared to previous generation engines. Since its entry into service in 2016, the LEAP engine has allowed its customers to save more than 20 million tonnes of CO2.

Air New Zealand is investing heavily in its fleet, capacity and marketing

Air New Zealand is investing heavily in its international fleet to support the growth of New Zealand's tourism industry throughout the year. Air New Zealand's CEO, Greg Foran, announced during TRENZ 2023 that the airline plans to operate 39 international routes with 4.5 million seats between March and October this year. Foran emphasised that the investments in new and retrofitted aircraft, capacity updates, and marketing campaigns show the airline's commitment to making New

Rockton to buy up to 40 ES-30 airplanes from Heart Aerospace

Swedish investment and aircraft leasing company Rockton will acquire up to 40 of Heart Aerospace's regional electric airplane, the ES-30, converting an earlier letter of intent with the Swedish airplane maker into firm purchase orders for 20 airplanes with purchase rights for 20 more. Leasing companies together own more than half of the global airplane fleet, making them a key stakeholder in the industry's transition to new and more sustainable technologies. Rockton is exclusively focused on investments in new technology mitigating aviation's negative climate effects and says the industry's target to reach net zero by 2050 is stoking demand for sustainable solutions. "The industry's interest and need to enable a sustainable transition is increasing by the day and the ES-30 is the most promising technology available for the regional aircraft segment. Its reserve-hybrid configuration enables a meaningful range and payload for the commercial airline market and the airplane will be continuously upgraded as new improved battery technology becomes available, making it an asset with enhanced performance the longer you own it," says Niklas Lund, Chief Executive of Rockton. The ES-30 is a regional electric airplane with a standard seating capacity of 30 passengers driven by electric motors with battery derived energy. It will have a fully electric zero emissions range of 200 kilometres, an extended hybrid range of 400 kilometres with 30 passengers and flexibility to fly up to 800 kilometres with 25 passengers, all including typical airline reserves. The plan is for the ES-30 to enter into service in 2028. Heart Aerospace now has a total of 250 firm orders for the ES-30, with options and purchase rights for an additional 120 planes. The company also has letters of intent for a further 91 airplanes.



ES-30 airplane

Photo: Heart Aerospace

PAL selects Airbus A350-1000 for future long-haul fleet



Image of A350-1000 aircraft in PAL livery

© Airbus

Philippine Airlines (PAL) has signed a Memorandum of Understanding (MoU) with Airbus for the purchase of nine A350-1000s. Under the Philippine carrier's Ultra-Long-Haul-Fleet project, the A350-1000 will be operated on non-stop services from Manila to North America, including to the East Coast of the U.S. and Canada. The new aircraft will join two A350-900s already in service with the

airline and currently flying to destinations in North America, Asia and Australia. As with the A350-900, the PAL A350-1000s will be configured in a premium layout with separate business-class, premium-economy and economy-class cabins. Captain Stanley K. Ng, President and Chief Operating Officer of Philippine Airlines, said that the range of the A350-1000 would enable the airline to fly non-stop transpacific and transpolar routes in both directions all year. These will include some of the longest commercial flights in the world, such as those linking the Philippines with New York and Toronto. With an expanded A350 fleet, PAL will have the ability to once again provide a direct link from the Philippines to Europe. Philippine Airlines operates various Airbus types on its full-service network. In addition to the A350 on long-haul intercontinental routes, PAL flies A330-300s on services to the Middle East, Australia and various points in Asia. The Philippine flag carrier also operates a fleet of A320 and A321 single-aisle aircraft on its extensive domestic and regional network out of hubs in Manila and Cebu.

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Zealand more accessible to visitors. The fleet investment includes the purchase of eight new Boeing 787-9 Dreamliners and five Airbus A320neo aircraft, which will increase the number of seats on the Tasman and Pacific Island services. The airline also plans to refurbish the interiors of its 14 Boeing 787 aircraft, including the addition of a new Business Premier Luxe and refreshed cabins. The airline is in final negotiations to acquire another Boeing 777-300ER, which could add 3,000 more seats per week to the international network, bringing the total fleet of 777-300s to eight. Air New Zealand's international network is operating at 91% of pre-COVID capacity, with bookings remaining steady. The North America network is close to pre-COVID levels, and the New York route is showing strong demand. Later this year, United Airlines will launch new routes from San Francisco-Christchurch and Los Angeles-Auckland, further increasing North America capacity. The airline's capacity on its Asia network is at 117% of pre-COVID levels, with Singapore remaining a key hub. The domestic network is back to pre-COVID levels, with added seats to Christchurch, Hamilton, Napier, and Nelson. To support New Zealand's tourism industry, Air New Zealand plans to invest NZ\$30 million in marketing campaigns this year and rebuild its offshore Sales and Marketing teams.

NetJets and Embraer sign deal for up to 250 Praetor 500 jets

NetJets, a leading private aviation company, has signed a new deal with Brazilian aircraft manufacturer Embraer to acquire up to 250 Praetor 500 jet options. The deal, valued at over US\$5 billion, includes a comprehensive services and support agreement and is expected to commence deliveries in 2025. This partnership marks NetJets' first time offering the midsize Praetor 500



Praetor 500 jet

© Embraer

jet to customers. NetJets has been operating Embraer's Phenom 300 series for over a decade, which has been one of their most requested aircraft. The partnership between Embraer and NetJets began in 2010, when NetJets first signed a purchase agreement for 50 Phenom 300 aircraft with up to 75 additional options. In 2021, after Embraer successfully delivered over 100 aircraft, the companies signed a continuing deal for up to 100 additional Phenom 300/E jets, valued at over US\$1.2 billion. NetJets' new agreement with Embraer demonstrates their commitment to creating an enhanced customer experience and providing reliable global access to their current owners and their guests. NetJets currently averages over 1,200 worldwide flights per day, making it essential for the company to offer the best aircraft and services to their customers. The partnership between NetJets and Embraer has been highly successful and has significantly contributed to Embraer's business growth. NetJets has taken all aircraft delivery options that have been ordered with Embraer since their inception, which is a testament to Embraer's ability to deliver the ultimate experience in business aviation. Michael Amalfitano, the President and CEO of Embraer Executive Jets, expressed his pleasure with the new agreement. He stated that the partnership between Embraer and NetJets has been an integral part of their business growth, and they are thrilled to have signed this monumental deal for the Praetor 500 midsize jet. This partnership marks the beginning of an even more exciting future ahead for both companies.

Cebu Pacific takes delivery of Avolon's 100th A320neo



Avolon has delivered its 100th Airbus A320neo to Cebu Pacific

© Avolon

Dublin, Ireland-based Avolon, the international aircraft leasing company, has announced that it has completed the delivery of its 100th Airbus A320neo. The recipient was Cebu Pacific and is the second A320neo delivered under an agreement signed earlier in 2023 for three new A320neos for the low-cost Philippine carrier. Once the third aircraft is delivered later this year, Avolon will have leased 12 aircraft to Cebu Pacific. Avolon is on course to meet its target of having a fleet comprising 75% new-technology aircraft by 2025. Currently the lessor has a significant order book pipeline for the A320neo-family of aircraft (A320neo/A321neo), with commitments to acquire a further 184 of this aircraft type as of March 31, 2023. The A320neo delivers 20% fuel savings and CO2 reduction when compared to previous-generation Airbus aircraft.

MRO & PRODUCTION NEWS

Farsound opens new state-of-the-art facility in Texas

Farsound has announced the opening of its new state-of-the-art facility in San Antonio, Texas this summer. The expansion will enable Farsound to enhance the services it offers to its customers across the U.S.A. Farsound also operates out of facilities in the UK, Canada, Spain, Japan and Singapore. The new premises in San Antonio will serve as a base for all Farsound's activities in the Americas, from bespoke MRO supply chain services to aero engine parts logistics. The initial facility will occupy approximately 28,000 ft² of specialist warehousing and office facilities. This expansion follows the appointment of new Farsound President U.S.A., Matt Berkebile, who will be based out of the new facility. Matt will oversee plans for growth across the U.S.A. to develop Farsound's reputation and market reach in the lucrative global MRO and aviation sectors.

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Embraer and Finep to develop demonstration platforms for new aeronautical technologies

Embraer and the Financiadora de Estudos e Projetos (Finep), which promotes Brazil's economic and social development through public funding for Science, Technology and Innovation, have signed an agreement for the development of platforms to demonstrate new aeronautical technologies. The formalisation of the partnership focused on sharing the costs and risks inherent in research and development at a low and medium Technology Readiness Level (TRL), took place during the ceremony celebrating the 30th anniversary of the Aerospace Industries Association of Brazil (AIAB) in São José dos Campos, interior of São Paulo. The innovation project, which uses resources from non-reimbursable funding originating from the National Development, Scientific and Technological Funding (FNDCT), is valued at more than R\$ 180 million (US\$ 36 million) and will receive a contribution of R\$ 120 million (US\$ 24 million) from Finep over the next three years. Complementary resources will come in return from the proposing company, Embraer, as well as from five co-executors: Alltec, Equatorial, Eleb, Matora and TecCer. The contract provides for the development of ground test benches (RIGs), software, and a remotely operated modular aircraft to carry out tests in real flight conditions, aiming to raise the TRL of these new technologies. To compose the project, Institutes of Science and Technology will be contracted, such as the Technological Institute of Aeronautics (ITA), the Mauá Institute of Technology (IMT), the Institute of Technological Research (IPT) and the School of Engineering of São Carlos, which

LHT signs five-year contract with Chilean carrier JetSMART for CAMO and aircraft engineering services

Lufthansa Technik (LHT) is expanding its footprint in South America by signing a contract with Chilean airline JetSMART, that runs for five years and includes extensive CAMO (Continuing Airworthiness Management Organization) support and aircraft engineering services, such as maintenance programme support or modification and component management. The collaboration has already begun and will initially cover 25 Airbus A320-family aircraft. With the planned growth of the airline, the fleet is expected to increase rapidly until 2027. To ensure the best possible service, Lufthansa Technik has set up onsite support for the customer in Santiago de Chile. "JetSMART appreciates the knowledge Lufthansa Technik has in regard to aircraft engineering services," says Estuardo Ortiz, CEO at JetSMART. "We were looking not only for a supplier. We were looking for a partner that can support our growth, is flexible enough to adapt to our AOC setup and is providing safe and stable processes." After the first weeks of cooperation, both sides are very satisfied.



JetSMART and LHT have signed a CAMO and aircraft engineering services contract © LHT

LHT and SmartLynx Airlines sign seven-year TCS contract



LHT and SmartLynx have signed a TCS contract covering the carrier's entire fleet © SmartLynx

Lufthansa Technik (LHT) has signed a seven-year contract with SmartLynx Airlines, an ACMI (Aircraft, Crew, Maintenance and Insurance), cargo and charter services provider, to provide total component support (TCS) for its entire fleet. The contract covers more than 60 aircraft, including 53 Airbus A320s, ten A330s and four Boeing 737 MAXs. SmartLynx Airlines has experienced rapid growth in recent years and is now focused on excellence and reliability for its customers. By partnering with Lufthansa Technik, SmartLynx Airlines aims to optimise its service and achieve better performance. The TCS contract has gone into effect on May 1, and includes services such as spare parts pooling and maintenance, repair and overhaul for the required components. SmartLynx Airlines will benefit from an individual supply concept that enables short and fast transport paths within Lufthansa Technik's global supply chain, including AOG (Aircraft On Ground) support for time-critical components. Lufthansa Technik will as of now support SmartLynx Airlines to ensure the highest performance and flexibility for its complex business portfolio. The support will be especially critical during the upcoming peak season. Lufthansa Technik will assist SmartLynx Airlines with seamless availability of components for smooth and successful operations.

belongs to the University of São Paulo (USP), further strengthening the relationship between Government, Academia and Industry – the triple helix that drives the socioeconomic development of the country. The granting of economic subsidy for innovation in companies is a government policy instrument widely used in developed countries and operated according to the norms of the World Trade Organization. The objective is to promote a significant increase in innovation activities and

increase the competitiveness of companies and the country's economy. (£1.00 = US\$1.26 / R\$6.32)

Chorus Aviation posts first-quarter net income of CA\$32.0 million

Chorus Aviation has posted net income of CA\$320 million for the first quarter of 2023, an increase of CA\$9.1 million compared to

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the previous year. Chorus Aviation reported Adjusted EBITDA of CA\$118.1 million, an increase of CA\$34.8 million over the first quarter of 2022. The RAL segment's Adjusted EBITDA was CA\$61.6 million, a quarter-over-quarter increase of CA\$29.9 million primarily due to Falko's earnings inclusive of CA\$6.7 million due to the recognition of non-reimbursable end-of-lease maintenance reserves. The RAS segment's Adjusted EBITDA was CA\$63.9 million, an increase of CA\$6.5 million over the first quarter of 2022. First-quarter results were impacted by an increase in other revenue of CA\$6.7 million due to an increase in parts sales, third-party MRO activity and contract flying and an increase in aircraft leasing revenue under the CPA of CA\$2.4 million primarily due to a higher US dollar exchange rate Corporate Adjusted EBITDA or net expenses of CA\$7.4 million were higher than the first quarter of 2022 by CA\$1.6 million due to an increase in general administrative expenses related to higher professional fees, salaries, wages and benefits and travel expenses. (£1.00 = CA\$1.67 at time of publication).

Emirates Group reports most profitable year ever with profit of US\$ 2.9 billion

The Emirates Group has released its 2022-23 Annual Report, reporting its most profitable year ever on the back of strong demand across its businesses. Emirates achieved new record profits, a complete turnaround from its loss position last year. Both, Emirates and dnata (one of the world's largest air services providers) saw significant revenue increases in 2022-23 as the Group expanded its air transport and travel-related operations following the removal of nearly all pandemic-related restrictions around the world. For the financial year ended March 31, 2023, the Emirates Group posted a record profit of AED 10.9 billion (US\$ 3.0 billion) compared with an AED 3.8 billion (US\$ 1.0 billion) loss for the previous year. The Group's revenue was AED 119.8 billion (US\$ 32.6 billion), an increase of 81% over last year's results. The Group's cash balance was AED 42.5 billion (US\$ 11.6 billion), the highest ever reported, up 65% from last year mainly due to strong demand across its core business divisions and markets. HH Sheikh Ahmed bin Saeed Al Maktoum, Chairman and Chief Executive, Emirates airline and Group, commented: "We had anticipated the strong return of travel and as the last travel restrictions lifted and triggered a tide of demand, we were ready to expand our operations quickly and safely to serve our customers. Our ongoing investments in our brand, and in our products and services, helped drive customer preference and position us favourably in the market. As a result, we have delivered a record financial

MRO & PRODUCTION NEWS

Hardide Coatings partners with Gardner Aerospace to coat Airbus components

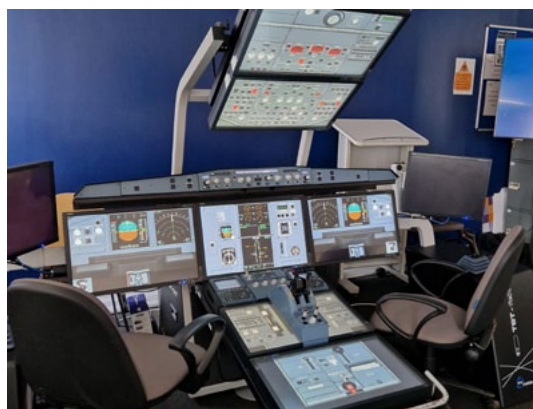
Advanced surface coating technology company Hardide Coatings has entered into a partnership with Gardner Aerospace to coat key wing components for the Airbus A320-family of aircraft. The Hardide CVD (chemical vapour deposition) nano-structured tungsten/tungsten carbide coating was selected after extensive testing by Airbus and is replacing hard chrome plating (HCP) previously used on these components. This is part of a strategic



Hardide Coatings and Gardner Aerospace to coat key wing components for the Airbus A320-family of aircraft © Airbus

move by Airbus away from the use of HCP as a result of the REACH regulations, which currently bans the production of HCP in the EU and UK from September 2024. The Hardide-coated components, which are critical to the operation of the flap mechanism, will be used on new-build A320s and as replacement parts for the existing fleet of aircraft as these are maintained. Initial components are expected to be coated in June 2023 with regular monthly volumes thereafter. Airbus is currently producing 50 A320 aircraft per-month with plans to increase this to 75 per-month by 2026. Hardide Coatings is currently coating similar wing components for the Airbus A330, A380 and A400M aircraft. Philip Kirkham, CEO of Hardide plc commented: "We are very pleased to have been selected to coat further components for the Airbus single-aisle A320-family high-volume production aircraft, and to replace hard chrome plating (HCP). "Our coatings are increasingly replacing HCP and thermal spray coatings such as HVOF (high velocity oxy-fuel) on components used in aerospace and other industries. The Hardide coating outperforms these other coatings in its wear, corrosion and fatigue resistance, and offers environmental advantages both in the coating process and its use in service." All Airbus parts are coated at the company's UK facility in Bicester, Oxfordshire

BSA gains new Part 147 type rating approval for Airbus A320 aircraft



The British School of Aviation has gained UK CAA and EASA Part 147 type approval for the Airbus A320 family of aircraft © BSA

London Luton Airport-based maintenance training organisation, The British School of Aviation (BSA), has expanded its operation, gaining UK CAA and EASA Part 147 type approval for the Airbus A320-family of aircraft. With existing Part 147 approvals from the UK CAA (Civil Aviation Authority), EASA (European Aviation Safety Agency) and HKCAD (Hong Kong Civil Aviation Department) to train engineers on Boeing 787, 737NG and MAX aircraft, the new addition sees the company's Maintenance, Training and Examination Organisation Approval certificate amended to also incorporate Airbus A318, A319, A320 and A321 aircraft (CFM56 engines). The company was founded in 2019 after purchasing Monarch Airlines Engineering Training Academy at London Luton Airport from the joint administrators at KPMG. Now, it has been developed into a cutting-edge maintenance training facility, with airlines, MROs and aircraft manufacturers turning to BSA for their training requirements. With easy access to central London, it offers an ideal solution for customers from around the world. BSA's global reach was underlined in 2022 when it gained Part 147 type approval for Boeing aircraft from HKCAD, and the company is already working on adding more international type approvals in the future. In addition, BSA has also instigated a new upskilling programme for retired and semi-retired licenced engineers looking to become Part 147 training instructors.

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performance and cash balance for our financial year 2022-23. This reflects the strength of our proven business model, our careful forward planning, the hard work of all our employees, and our solid partnerships across the aviation and travel ecosystem.” To support expanded operations and to bolster the Group’s future capabilities, Emirates and dnata ramped up recruitment activity across the globe during the year. As a result, the Group’s total workforce increased by 20% to 102,379 employees, representing over 160 different nationalities. In 2022-23, the Group collectively invested AED 7.2 billion (US\$ 2.0 billion) in new aircraft, facilities, equipment, companies, and the latest technologies to position the business for future growth. The Group’s commitments include: a massive multi-billion-dollar aircraft cabin retrofit programme; an order for five new 777 freighters; the building of a new pilot training centre; the opening of Bustanica, the world’s largest vertical farm in Dubai under a partnership with CropOne; new training aircraft for its cadets at Emirates Flight Training Academy; dnata’s acquisition of 30% shares to gain full ownership of its ground handling operations in Brazil; and the building of a new advanced cargo facility in Erbil, Iraq. (£1.00 = US\$1.25 / AED 4.60 at time of publication).

Indian tribunal grants bankruptcy protection to Go Airlines

On Wednesday, May 10, bankruptcy protection was granted to Go Airlines (India) Ltd by an Indian tribunal. This move aims to assist the country’s fourth-largest carrier in reviving itself, but it may create challenges for foreign lessors seeking to repossess their planes. Go Airlines, which was recently renamed Go First, is a low-cost carrier that attributes its financial crisis to “faulty” Pratt & Whitney engines that grounded almost half of its 54 Airbus A320neos. The U.S. engine manufacturer, part of Raytheon Technologies, has denied the allegations, stating that there is no evidence to support them. The National Company Law Tribunal has ordered an interim resolution professional to take over the airline’s management immediately and imposed a moratorium on Go First’s assets and leases. This is the first time an Indian airline has voluntarily sought bankruptcy protection to restructure contracts and debt. However, the lessors’ repossession efforts may be complicated by the move, as they have recently requested that India’s aviation regulator return around 40 Go First planes due to missed rental payments. According to lawyers and industry sources, Indian law prohibits such recoveries once bankruptcy proceedings have been initiated for a company.

MRO & PRODUCTION NEWS

General Atomics commences production of Next Generation Dornier 228



General Atomics AeroTec Systems starts series production of the Do228 NXT

© GA-ATS

Having purchased the Oberpfaffenhofen site and the Dornier 228 programme in 2021, the German aircraft manufacturer General Atomics AeroTec Systems (GA-ATS) has announced that it has just begun production of the latest version of the passenger and special mission aircraft, the Dornier 228 NXT. With state-of-the-art technology, improved performance and complying with current environmental regulations, the Next Generation of the Do228 will once again be produced in Oberpfaffenhofen. The Do228 NXT is based on the long-standing successful Dornier 228 and has been adapted through technical optimisation to meet all current requirements, both for passenger and special mission aircraft. The principal focus of the Do228 NXT will be on series production and further optimisation of the aircraft. General Atomics AeroTec Systems will recommence small-series production of the aircraft in Oberpfaffenhofen, manufacturing up to five Do228 NXT per annum. Consequently, the company is constructing a modern production line with integrated manufacturing methods. Most of the manufacturing will take place on site, including the production of elementary structural components. The Do228 has been in successful service worldwide for multiple decades for maritime patrol (pollution control, search and rescue missions, border control, fisheries patrol), research flights, surveillance and reconnaissance, and light transport missions (cargo, parachutists, passengers, MedEvac). One of the principal features of the aircraft is its ability to take off and land on short tracks (STOL). Additionally, it can operate on unpaved runways. General Atomics AeroTec Systems also offers upgrades, modernization, maintenance and repairs for the Do228. General Atomics AeroTec Systems will collaborate with French aerospace company Potez Aéronautique to produce the Do228 NXT fuselage in the future, further strengthening its European supply chain. Furthermore, Potez Aéronautique will take over the production of selected individual parts for final assembly and deliver them to Oberpfaffenhofen.

Air France-KLM and Apollo in talks over €500million cash injection

Air France-KLM has confirmed it has been in discussions with Apollo Global Management (Apollo), the private equity firm, for a second capital injection of €500 million, this time for one of its engineering maintenance units. According to the European carrier, the money will be allocated for general corporate purposes and that no workforce-related changes would be involved. The new financing arrangement if complete will help strengthen Air France-KLM’s and Air France’s balance sheet, the group said

in a press release. Air France-KLM and Apollo Global Management entered into a similar solution in 2022 when the private equity firm invested €500 million in the company to help in repaying French state aid. Sale-and-leaseback deals are common financing mechanisms in aviation. But a flood of investment from new sources of funding has increased competition for traditional leasing companies. Earlier in April, Air France KLM agreed to revolving credit facilities (RCF) worth €2.2 billion, adding that these are linked to environmental, social and governance (ESG) targets. Air France-KLM Group, is a Franco-

FINANCIAL NEWS

Dutch airline holding company incorporated under French law with its headquarters at Charles de Gaulle Airport in Tremblay-en-France, near Paris. Apollo Global Management, Inc. is an American global private equity firm. Founded in 1990 by Leon Black, Josh Harris, and Marc Rowan, it provides investment management and invests in credit, private equity, and real assets. As of 2022, the company had US\$548 billion of assets under management, including US\$392 billion invested in credit, including mezzanine capital, hedge funds, non-performing loans, and collateralized loan obligations. (£1.00 = €1.15 at time of publication).

MILITARY AND DEFENCE

IFS and Lockheed Martin announce joint partnership

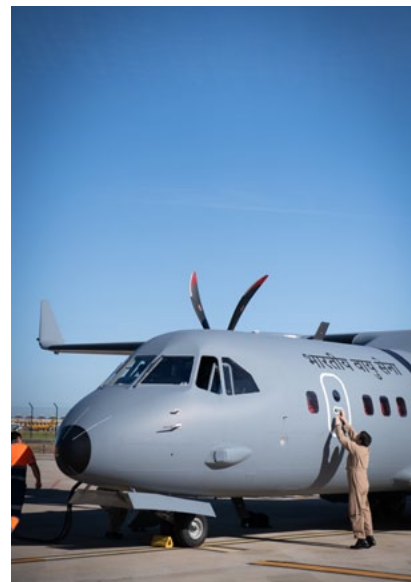
IFS, the global cloud enterprise applications provider, and Lockheed Martin have announced a joint partnership to promote products and services to help aerospace and defence organisations maximise the value of their enterprise software investments, modernize their equipment maintenance and support processes, and keep assets mission ready. IFS and Lockheed Martin have worked together for a number of years. In 2021, IFS and Lockheed Martin announced that both companies had been selected by the U.S. Navy to deliver an intelligent maintenance solution to power the streamlining of multiple legacy systems into a single, fully digitized and insight-driven logistics system. The solution comprises capabilities for planning and executing maintenance, repair and overhaul of more than 3,000 assets, including aircraft, ships and land-based equipment. This new agreement will build on the success of the two companies. IFS software will be made available in the Lockheed Martin Innovation Demonstration Centre located at its Training and Logistics Solutions facility in Orlando, Florida. Additionally, IFS and Lockheed Martin will collaborate on bid processes for customer opportunities, as well as share technology roadmaps to align their technology offerings for aerospace and defence customers. Reeves Valentine, Vice President of Land and Maritime Solutions at Lockheed Martin Rotary and Mission Systems, said: "At Lockheed Martin, we develop highly tailored solutions to help our customers achieve their critical missions." He added: "Delivering digital tools that feature intuitive interfaces, streamlined workflows and AI-powered features keeps our military ahead of evolving threats. This partnership with IFS combines both companies' efforts to ensure our customers have the most innovative defence capabilities."

MILITARY AND DEFENCE

India's first C295 aircraft completes maiden flight

The first C295 aircraft for India has successfully completed its maiden flight, marking a significant milestone towards its delivery by the second half of 2023. The tactical aircraft took off from Seville, Spain, on the May 5, and landed after three hours of flight. India has acquired 56 C295 aircraft in September 2021 to replace the (IAF) legacy AVRO fleet. The first 16 aircraft will be assembled in Seville, Spain, and delivered to the customer in 'fly-away' condition. The following 40 aircraft will be manufactured and assembled by the Tata Advanced Systems (TASL) in India as part of an industrial partnership between the two companies.

This programme will significantly contribute to developing the country's military industrial ecosystem from the manufacturing to assembly, testing, to delivery and maintenance of the complete lifecycle of the aircraft. The C295 programme comprises a total of 280 orders from 39 operators, making it an unmatched aircraft in its weight and mission class.



India's first C295 tactical aircraft has completed its maiden flight
© Airbus

IAI signs deal to acquire INTRACOM DEFENSE (IDE)



IAI and INTRACOM DEFENSE signing ceremony

© IAI

Israel Aerospace Industries (IAI) has announced the signing of a deal to acquire Greece's leading technology defence company, INTRACOM DEFENSE (IDE). The acquisition will integrate IDE into IAI's business activities in Greece and Europe, while also providing solutions to the challenges faced by European countries. IDE specializes in the production of missile launchers, missile subsystems, tactical communications for land and sea, hybrid generation, and more. The company is active in

Greece, other NATO countries, and has defence collaborations with leading companies in the United States and Europe. IAI conducts a wide range of collaborative activities throughout Europe, supplying advanced and operationally proven systems for marine, land, air and space use. The acquisition of IDE will strengthen and widen IAI's activities in Greece, among NATO countries and help promote a wide range of solutions that the company can provide. IAI's customers will benefit from the possibility of local production and maintenance on the European continent and from the wide product portfolio that IAI can supply, including the most advanced air defence systems, which are in great demand worldwide. The acquisition of IDE will also benefit Greece by enabling local industry involvement in upcoming Greek defence-related procurement programmes and positioning the Greek company as a leader in its field. IDE's Greek customers will continue to benefit from the company's independence, as well as a larger and more widely deployed range of services for new markets. IAI's CEO, Boaz Levy, sees the acquisition of IDE as strengthening IAI's business capabilities in Greece and in Europe as a whole. The two companies share a common vision for the highest-quality solutions and have cooperated on more than one occasion over the last few years. In view of the increasing defence needs across Europe and the ever-increasing demand for air-defence and UAV systems, IAI and IDE are well positioned to address these challenges.

INFORMATION TECHNOLOGY

With AMOS up and running, **SunExpress'** latest digitalisation project, named "Paperless Aircraft Maintenance Operations" is fully operational. SunExpress, the Antalya, Türkiye-based airline intends to save one million pieces of paper annually through this project, which was initiated in 2019 to eliminate paper-based processes in its aircraft maintenance. **Swiss-AS** was selected as the partner of choice to provide the most suitable solutions to help it reach its objectives with AMOS awarded as its maintenance engineering software. The cooperation between Swiss-AS and SunExpress started in February 2020 with the kick-off meeting and a couple of training sessions. Unfortunately, COVID started at this time, and the project was officially frozen for several months. Since the restart of the project in 2021, SunExpress has been implementing a large-scale scope without the need for extensive project management and business consulting support from Swiss-AS, thanks to having experienced Key Users and Project Managers with previous AMOS experience. After two years, the project went successfully live on the night of December 31 starting the new year off in the right way, and SunExpress successfully started to use tablets for aircraft maintenance operations, fully digitally without the use of paper. Besides integration with existing flight and finance systems, SunExpress opted for a large scope of add-on modules, including the full AMOSmobile suite (consisting of AMOSmobile/EXEC and AMOSmobile/STORES), as well as e-signature, becoming the first approved airline in Türkiye to go "paperless". The e-jobcards are created and completed right from AMOS and allows the e-signature to be completed through PDF Overlay. This process sees the record keeping remain entirely digital. This provides the mechanics with direct access to the aircraft information on mobile devices through AMOSmobile/EXEC. The use of tablets enables

MILITARY AND DEFENCE

Embraer and Saab inaugurate production line of Gripen E in Brazil



Official inauguration of the Gripen E production line in Brazil

© Embraer

The production line of the Gripen E in Brazil has been inaugurated by Embraer and Saab at Embraer's facility in Gavião Peixoto (São Paulo State), marking an important milestone in the technology transfer programme and the companies' commitment to collaborating on new business opportunities. The event was attended by significant civil and military authorities, including the President of Brazil, Luiz Inácio Lula da Silva, the Minister of Defense, José Mucio Monteiro Filho, and the Brazilian Air Force Commander, Lieutenant-Brigadier Marcelo Kanitz Damasceno, among others. This inauguration of the final assembly line, which is the only one for Gripen E outside of Sweden, is a significant contribution to the Gripen fighter ecosystem in Brazil. The Embraer plant in Gavião Peixoto, with the Gripen Design and Development Network (GDDN), the Gripen Flight Test Centre (GFTC), and now the assembly line, serves as the centre for the development, production, and testing stages of the aircraft. Embraer and Saab have been working together on the largest ongoing technology transfer project in Brazil since the signing of the contract to supply 36 fighters - Gripen E (single-seater) and eight Gripen F (twin-seater) - to the Brazilian Air Force in 2014. The production line has also become an opportunity for new business since the signing of the Memorandum of Understanding between the companies. At the Embraer production line, aerostructures from Saab plants in Linköping (Sweden) and São Bernardo do Campo (São Paulo State, Brazil) are joined together to produce the fighter aircraft. This process involves the installation of cabling, equipment of various systems, landing gear, avionics, tactical equipment, canopy, ejection seat, and engine. Functional tests and production flights are carried out once a Gripen is completed to prepare the aircraft for final delivery. The Embraer plant will produce 15 Gripen E fighters, with units assembled in Brazil being delivered from 2025. To gain the necessary skills for the production of supersonic fighter jets in Brazil, Embraer technicians received theoretical and practical training, including on-the-job training, at Saab in Linköping. There they worked alongside Swedish employees to produce the aircraft that have already been shipped to Brazil.



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INFORMATION TECHNOLOGY

a boost in the mechanics' productivity by allowing more efficient transits and exchanges between mechanics and back-office during all Line and Base Maintenance activities, saving tons of paper usually created in the process of documenting all maintenance steps. Including AMOSmobile/STORES in its scope of usage will allow SunExpress to focus on priorities when it comes to the operation of its stores, increasing its cost efficiency by lowering losses due to surplus inventory and enhancing process efficiency while taking in all the benefits from mobility. This is currently still in the testing phase at SunExpress maintenance stations.

Aircraft maintenance software provider **Rusada** has released that its ENVISION solution has been certified by **SAP** as integrated with cloud solutions from SAP. The certification allows organizations using SAP S/4HANA® to interface with ENVISION more easily and pass data between the two systems using tested and certified integrations. Through using the ENVISION Integrator, customers can now create input and output interfaces for SAP systems without additional programming, using standard APIs available on the SAP Business Technology Platform. "Our certification with SAP enables us to significantly reduce the effort required to integrate with their cloud solutions" comments Neil Hargreaves, Chief Operating Officer at Rusada. "The creation of integrations is a key step in many ENVISION implementations, so anything we can do speed-up this process results in time and resources saved for our customers."

Datalex, a leading provider of digital retail technology for the airline market, has renewed its partnership with **Edelweiss**, a Swiss airline. As part of this partnership, Datalex will lead a new digital transformation plan that will enable the airline to accelerate its digital retailing strategy by moving to the latest version of Datalex's product suite. The partnership renewal with Edelweiss extends for another five years, building on their longstanding relationship. Edelweiss, a sister company of Swiss International Air Lines, operates from its base at Zurich, serving over 80 destinations. Datalex's product suite will enable Edelweiss to achieve greater retailing excellence across all channels. The initial phases of the digital transformation plan will see Datalex' software support omni-channel excellence for Edelweiss's direct channel via Datalex Direct, as well as enhanced capabilities for ancillary merchandising through the Datalex Merchandiser product. To provide real-time control and reactivity, the renewal will include access to Datalex' Digital Configurator tool, giving Edelweiss more autonomy to drive its digital retailing strategy. In later phases of the product transition, Edelweiss will benefit from the Datalex NDC product, used in conjunction with the Airline Assistant tool. Edelweiss will also benefit from a new cloud-based software solution that will allow the airline to receive real-time product updates. During the official contract signing at Edelweiss's Head Office in Zurich, Switzerland, Edelweiss's CEO Bernd Bauer commented on the partnership renewal, stating that Datalex' product suite and expert customer teams are crucial to enhancing Edelweiss' digital offering. The airline has continued to strengthen its relationship with Datalex since their initial partnership in 2016.



Representatives from Edelweiss and Datalex at Edelweiss's Head Office in Zurich, Switzerland
© Datalex

OTHER NEWS

United Airlines (United) has announced that it will begin using a blend of sustainable aviation fuel (SAF) on departing flights from San Francisco International Airport and is planning to use a SAF blend later this year at London Heathrow Airport, which could put the airline on track to use approximately ten-million gallons in 2023, nearly three-times more than in 2022 and close to ten-times more than in 2019. "It's remarkable to see that in just a few years United has exponentially increased its SAF use," said United Chief Sustainability Officer Lauren Riley. "While ten million gallons of SAF in 2023 represents a fraction of what we need, we have also made big investments in producers that are using everything from ethanol to algae, to CO₂, to help increase our available future supply. We believe these investments, along with our continued collaboration with policymakers, cross-industry businesses and other airlines

will help us scale this brand-new industry to achieve comparable success to solar and wind." To date, United has invested in the future production of over five billion gallons of SAF. United has used SAF blends at Los Angeles International Airport since 2016 and Schiphol Airport in Amsterdam since 2022 and continues to use SAF at those airports in 2023. The SAF deliveries commenced at San Francisco Airport in April, with United receiving 1.5 million gallons of SAF for departing flights, the remainder of United's SAF supply will be used at Los Angeles International Airport and Amsterdam's Schiphol Airport. London Heathrow Airport is expected to begin receiving deliveries of SAF later in 2023. Once the SAF is delivered to London Heathrow, it will mark the first time United would participate in London Heathrow's SAF incentive programme. The SAF used on United's flights will be paid for in part through the company's EcoSkies AllianceSM, an innovative programme designed for participating companies to work together to share the "green premium" or

the cost associated with purchasing lower-emission fuels. Participating in United's EcoSkies Alliance provides its corporate customers with the opportunity to build transparency and enable true, certified SAF emissions reductions associated with travel of people or goods on United flights.

Global tonnages appear to have stabilized in the last week of April, following a mid-month increase after dropping sharply at the end of March and declining for several previous weeks, according to the latest weekly figures from **WorldACD** Market Data, with rates also stabilizing and even slightly rising after a period of decline. However, following an upswing in chargeable weight in the third full week of April, and a continuing slow slide in worldwide average rates since February, figures for week 17 (24 to 30 April) indicate a stabilization in tonnages and a slight increase in average global air cargo prices, week on week – based on the more

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than 400,000 weekly transactions covered by WorldACD's data. Comparing weeks 16 and 17 with the preceding two weeks (2Wo2W), overall tonnages increased by +2% versus their combined total in weeks 14 and 15, and average worldwide rates decreased by -1%, while capacity has grown by a further +2%. At a regional level, the most notable development is the exceptional growth in tonnages ex-Central & South America (+29%), especially to North America (+52%), driven by +74% growth in flower exports ahead of Mother's Day on 14 May. Furthermore, tonnages between Europe and North America are on an upward trend (westbound +10%, eastbound +3%), as well as between Europe and Asia Pacific (westbound +2%, eastbound +5%), and between Asia Pacific and North America (westbound +3%, eastbound +6%). The main negative trends in tonnages can be observed between Asia Pacific and Middle East & South Asia (westbound -11%, eastbound -6%), and outbound Middle East & South Asia to Europe (-9%). In terms of pricing, on a 2Wo2W basis, average rates show a positive trend ex-Central & South America to North America (+10%) and to Europe (+7%); but for most other major air cargo lanes, rates have been stable or decreasing, with the most significant drop seen from North America to Asia Pacific (-8%).

Year-on-Year perspective

Comparing the overall global market with this time last year, chargeable weight in weeks 16 and 17 was down -8% compared with the equivalent period last year. Most notable are the double-digit percent decreases in year-

on-year tonnages ex-North America (-20%), ex-Africa (-16%) and ex-Middle East & South Asia (-15%). Overall capacity has increased by +15% compared with the previous year, with double-digit percentage increases from all regions – except from North America (+8%), and Central & South America (+7%). The most notable increases were ex-Asia Pacific (+36%), ex-Africa (+14%) and ex-Europe (+14%). Worldwide rates are currently -36% below their levels this time last year, at an average of US\$2.58 (£2.05) per kilo in week 17, despite the effects of higher fuel surcharges, although they remain significantly above pre-COVID levels.

The **European Union Aviation Safety Agency** (EASA) has published the first proposal world-wide for the assessment of the noise generated by air taxis, addressing one of the top societal concerns relating to this new mode of urban transport. The **Environmental Protection Technical Specifications** (EPTS) are applicable to **electric Vertical Take-Off and Landing** (eVTOL) aircraft powered by multiple, vertical, non-tilting, evenly distributed rotors. "When EASA conducted a Europe-wide survey on Urban Air Mobility in late 2021, noise was highlighted as one of the major concerns by participants with respect to air taxis, along with environmental concerns and overall safety," said EASA Executive Director Patrick Ky. "This proposal addresses those concerns, describing ways to measure the noise produced and setting limits to ensure that the noise pollution is not excessive." The EPTS document defines harmonised noise assessment criteria that could be used in

the type certification of this eVTOL-capable aircraft with this type of design. The aim is to reach a high, uniform level of environmental protection and to prevent significant harmful effects of noise on human health in the EU, as mandated by the EASA Basic Regulation. It includes the applicable noise technical specifications and procedures as well as maximum allowable noise levels. The proposed specifications are intended to fill a regulatory gap and took the internationally harmonised noise certification standard applicable to heavy helicopters as a starting point, to allow for a level playing-field and comparability of technology. The procedures defined are adapted to the characteristics of eVTOL aircraft where necessary. For example, as eVTOL are expected to be quieter in certain phases of flight there is a need to allow them to fly closer to the microphone in certain flight phases to maintain a minimum signal-to-noise quality. In addition, a hover noise assessment has been developed to aid the noise assessment of operations in the vicinity of vertiports, - the places where these aircraft will take off and land. The maximum allowable noise levels are kept identical to those of the most recent heavy helicopter limits from the International Civil Aviation Organisation (ICAO Annex 16, Volume I, Chapter 8.4.2) while EASA collects more noise data from such designs through certification projects.

During the month of April, **SAS** carried 1.9 million passengers, which is a 22% increase compared to the same period last year. This positive trend is shown in SAS' passenger demand and the RPK increased by 28% compared to last year.

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The flown load factor was 76%, which is a five-percentage point improvement compared to April of the previous year. SAS is preparing for a busy summer season and has launched two new direct intercontinental routes, from Aalborg to New York and from Gothenburg to New York. Furthermore, a new direct route between Copenhagen and Bangkok has been announced, which will start this autumn. SAS' customers requested this route, and the company is proud to bring it back, as there is a long history of friendship and cooperation between Thailand and the Scandinavian countries. Anko van der Werff, the President & CEO of SAS, expressed his satisfaction with the positive demand evolution.

In conjunction with heyworld logistics provider and **CB Customs Broker, Lufthansa Cargo AG** is looking to grow its e-commerce business. In the process it is looking to establish Frankfurt Airport as a global e-commerce hub. "We clearly experience and see eCommerce as a growth market," said Ashwin Bhat, CEO of Lufthansa Cargo. "A decisive success factor for online trade is the resilience and speed of the supply chain. We want to make Frankfurt a leader in this segment by offering an integrated, holistic solutions for shipping, customs clearance and the further transport of eCommerce shipments." Beyond expanding its European medium-haul network and adding two more A321 freighters to its capacity, Lufthansa Cargo via its subsidiaries and partners will also be targeting new software solutions and

expanding the capacity of its eCommerce hub in Cargo City Nord. Commissioned by heyworld in 2019, shipments at the eCommerce hub in Cargo City Nord can be automatically separated from classic freight and quickly transported onward. "Our eCommerce hub at Frankfurt Airport enables us to meet growing customer needs for fast deliveries," explains Boris Hueske, Managing Director of heyworld. "As a logistics partner, we complement Lufthansa Cargo's offering with innovative software and forwarding solutions that significantly accelerate the clearance and onward transport of eCommerce shipments." In doing so, heyworld orchestrates the entire transport chain and thus enables eCommerce shippers to obtain cost-efficient, fast and transparent solutions. An important and highly complex chain link in Lufthansa Cargo's complete solution is the customs clearance of large eCommerce shipment volumes. This area is filled by the customs clearance agent CB Customs Broker. For this purpose, the company recently developed its own software that meets both the data protection and regulatory requirements of modern online trading. The software solution makes it possible to clear large volumes of individual shipments through automation in a timely and cost-effective manner.



As part of the tradition, each of the 120 people gathered at Thursday's celebration signed the final beam that will be placed atop the terminal roof
© Beth Hollerich

Airport leaders, elected officials, and industry partners gathered on May 4, to celebrate the topping out for **Pittsburgh International Airport's (PIT)** new landside terminal – a key component in the US\$1.4 billion Terminal Modernization Programme. The airport broke ground in October 2021 on the project that also includes one of the largest parking garages in western Pennsylvania and a new airport roadway system. Topping out represents the point in a construction project when the highest point of the building is reached, or the final steel beam is put into place. Construction of the roof of the new terminal began on April 13. As part of the tradition, each of the 120 people gathered at Thursday's celebration signed the final beam that will be placed atop the terminal roof this summer. "The Pittsburgh region is already enjoying substantial economic benefits from the new terminal programme, which will only multiply as this innovative project continues to take shape," said Rich Fitzgerald, Allegheny County Executive. "The new Pittsburgh International Airport will be the anchor for the region as it attracts investment from all over the world." The Terminal Modernization Programme is scheduled to be completed in 2025 and is receiving no local tax dollars. It is adding nearly 14,300 direct and indirect jobs and generating approximately US\$2.5 billion in economic activity for the Pittsburgh region. The new terminal is on track to earn at least LEED Silver certification for environmental sustainability. The parking garage will include 3,300 public spaces, much larger than the current garage. "This project is a manifestation of our mission, and it is being created by and for the people living in western PA with an emphasis on the nature, technology and community of the region," said Christina Cassotis, CEO of the Allegheny County Airport Authority, which operates and manages Pittsburgh International Airport. "The new terminal will go further for our community and our passengers to create an innovative and welcoming experience to everyone who walks through here. I thank our community, particularly our elected leaders, for their support to make the idea of a new terminal at PIT a reality," Cassotis added.

INDUSTRY PEOPLE



Derek Kerr

American Airlines Group (American) has released that **Derek Kerr**, American's Vice Chair, President of American Eagle and Strategic Advisor, will retire from the airline on September 30. Kerr stepped down as CFO at the end of 2022 after 20 years in the role as part of a long-planned succession process. **Devon May** was named Kerr's successor as CFO and assumed the role on January 1. Heather Garboden was named Senior Vice President of Regionals and Cargo in March and will continue to lead American's Regional and Cargo work going forward. "Derek Kerr is one of the finest and most accomplished executives in the history of the airline business," said American's CEO **Robert Isom**. "I'm proud to call him a friend, and American is very well-positioned for the future because of his leadership. We wish him well as he begins his retirement." In his

INDUSTRY PEOPLE

most recent role of Vice Chair, President of American Eagle and Strategic Advisor, Kerr has led American's Regional and Cargo teams and served as a strategic advisor to the company. As President of American Eagle, he has been responsible for nearly half of American's daily departures with oversight of the airline's regional operations.



Alexandre Ziegler

• Effective June 1, 2023, **Alexandre Ziegler** will be appointed as Executive Vice President (EVP), Defense Division and member of the Executive Committee of Safran Electronics & Defense. He replaces **Frédéric Mazzanti**, who moves to another position. Ziegler started his career in 1997 as advisor to the strategic, security and disarmament affairs division of the French Ministry of Foreign Affairs. He held a series of positions between 2000 and 2010, including Deputy Counsel General in Hong Kong, First Secretary, then Second Counselor in Berlin, and Counselor for Culture and Cooperation in Beijing. Ziegler was then appointed head of programmes and network at the Globalization, Development and Partnerships division in the Ministry of Foreign Affairs. He held this position until 2012, when he joined the cabinet of the Minister of Foreign and European Affairs. He was named Chief of Staff at the Ministry of Foreign Affairs in June 2013 and became in 2016 the French Ambassador to India. In September 2019, he joined Safran as Senior Executive Vice President, International and Public Affairs. Ziegler holds a graduate degree in history from the ENS Lettres et sciences humaines (1992), as well as degrees from Sciences-Po Paris (1993) and the Ecole Nationale d'Administration (1995-1997).

• Boeing has appointed **Joe Benson** as President of Boeing Business Jets (BBJ). Benson oversees sales, support and operations for Boeing Commercial Airplanes' portfolio of business jets operated by heads of state, VIP, corporate and charter customers. Benson's experience and industry relationships ensure strong leadership continuity for customers. Most recently, he served as BBJ's deputy to the president and business director, leading key sales campaigns and business operations. He succeeds **Erika Pearson**, who

was recently named Vice President of Boeing Commercial Airplanes Sales and Marketing in Southeast Asia and Oceania. Since joining Boeing in 2010, Benson has held leadership, strategic business development and sales and marketing roles across the company. He previously served for a decade as a U.S. Army officer after graduating from the United States Military Academy at West Point. With more than 260 jets sold since the business was founded in 1996, Boeing Business Jets offer customers private jets that redefine comfort and convenience. With a wide range of high-performance aircraft, including the BBJ 737 MAX, BBJ 787 Dreamliner and BBJ 777X, the jets can be uniquely customized for private, business or governmental use.

• GA Telesis (GAT) has announced the promotion of **Lynda Cheng** to the position of Senior Vice President of Asia Sales within the Flight Solutions Group (FSG) located in Fort Lauderdale. Cheng adds this new role to an already extensive career that began nearly 20 years ago, covering a wide array of aviation aftermarket sales and services. Cheng joined GA Telesis' Flight Solutions Group in 2011 as Director of Asia Sales and shortly thereafter was promoted to VP of Asia Sales. During her tenure in those roles, she became an integral part of driving sales and support to the entire Asia Pacific team in the areas of asset management, asset sales, MRO support, supply chain parts sales, and engine MRO sales. In addition, she was instrumental in the start-up of the GA Telesis joint venture GAIC Innovation located in Beijing, China.

• Avionix Management Limited (Avionix), a Dublin-based aircraft lessor and aircraft portfolio servicer owned by institutional investors advised by J.P. Morgan Global Alternatives' Global Transportation Group (GTG), has named **Martin Gallagher** as Managing Director, Technical & Asset Management, and **David Ronan** as Head of Finance & Operations. They join Aisling McCarthy, who was appointed Managing Director, Commercial Management, in June 2022 having worked with the platform in an advisory capacity since April 2021. Over more than 20 years McCarthy has held senior commercial positions with Pembroke Capital, AWAS, Stratos, AMCK Aviation and Castllake, and provided independent advisory services to Chinese lessors. Gallagher has over 30 years' experience in the aviation sector, having started his career in Shannon Aerospace. He held sen-

ior roles at RBS, MCAP, NAC and AWAS before joining the initial eight-person team to set up Goshawk in 2016. He was closely involved in the growth of that business from start-up to a fleet of 180 + aircraft across 65 global customers with a portfolio value of US\$8.1 billion and managed a 12-person team supporting all technical aspects of aircraft leasing including SLBs, portfolio acquisition and disposal, and asset management and transitions. Ronan began his career with RBS Aviation Capital in 2008 in the Business Analysis team and was a project lead in the disposal of RBS Aviation to SMBC Bank. In 2014 he joined FPG Amentum to manage the Finance, IT and Lease Operations teams. He then joined AMCK Aviation to build and lead the Corporate Finance & Treasury function, where over seven years he built teams in Dublin and Tokyo and was responsible for raising over US\$3 billion (£2.4 billion) via various corporate and secured facilities.

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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	Now	Sale / Lease	David Byrne	aircraft@gatelesis.com	+353 86 780 8974
A330-200	Doric	Trent 772B-60	1310	2012	Q2/2024	Sale / Lease	Maurick Groeneveld	maurick.groeneveld@doric.com	+49 69 247559-931
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
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
SAAB 2000	Jetstream Aviation Capital	AE2100A	031	1996	Now	Sale / Lease	Donald Kamenz	dkamenz@jetstreamavcap.com	+1 (305) 447-1920 x 115
SAAB 340B CRG	Jetstream Aviation Capital	CT7-9B	224	1990	Now	Lease	Bill Jones	bjones@jetstreamavcap.com	+1 (305) 447-1920 x 102
SAAB 340B Plus	Jetstream Aviation Capital	CT7-9B	450	1998	Now	Lease	Bill Jones	bjones@jetstreamavcap.com	+1 (305) 447-1920 x 102

Commercial Engines

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) CF34-3A	Now - Sale	GNS	Shlomi Levi	shlomi@g-n-solutions.com	+972-52 850 8511
(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



THE AIRCRAFT AND ENGINE MARKETPLACE

Commercial Engines

CFM Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CFM56-5B3/3	Now - Lease	FTAI Aviation LLC	Mark Napoles	mnapoles@ftaiaviation.com	+1 786-785-0777
(1) CFM56-5B4/P	Now - Lease				
(1) CFM56-5B3/P	Now - Lease				
(1) CFM56-5B1/P	Now - Lease				
(1) CFM56-7B26	Now - Lease				
(1) CFM56-5B4/P	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) CFM56-7B24/E	Now - Lease				
(1) CFM56-7B26	Now - Lease				
(1) CFM56-7B24/3	Now - Lease				
(2) CFM56-5C4/P	Now - Lease				
(2) CFM56-5C4	Now - Lease				
(2) CFM56-7B26E	Now - Lease				
(1) CFM56-5B4/P	Now - Sale/Lease/Exch.	AeroDirect	Sean Miller	SMiller@aerodirect.com	+1.404.229.3723
(1) CFM56-5B4/3	Now - Sale/Lease/Exch.				
(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	Royal Aero	Gary MacLeod	gary@royalaero.com	+44 (0)1357 521144
(1) CFM56-5A3	Now - Sale				
(1) CFM56-7B24/3	Now - Lease				
(1) CFM56-7B26/3	Now - Lease				
(1) CFM56-7B26	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				
(1) CFM56-7B22/3	Now - Lease				
(1) CFM56-5B4/3	Now - Sale / Lease	GA Telesis	Bradley Hogan	engines@gatelesis.com	+1 980.256.7120
(1) CFM56-5B3/P	Now - Sale/Lease/Exch.				
(2) CFM56-5B6/P	Now - Sale/Lease/Exch.				
(1) CFM56-7B27	Now - Sale/Lease/Exch.				
(1) CFM56-5B3/P	Now - Sale/Lease/Exch.				
(1) GE90-94B	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) GE90-115BL (SP)	Now - Lease				
(2) GE90-90B	Now - Sale/Lease/Exch.				
(1) LEAP-1B28	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) PW1100G-JM	Now - Lease				
(1) PW1521G-3	Now - Lease				
(1) PW4168	Now - Sale / Lease	Castlelake	Graeme Dodd	Graeme.dodd@castlelake.com	+44 207 190 6138
(2) PW4168A	Now - Sale / Lease				
(1) PW4168A	Q4/2022 - Sale				
(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				
(3) PW127M	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	leasing@willislease.com	+1 (561) 349-8950
(1) PW150A	Now - Sale/Lease/Exch.				
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.				
(1) V2527-A5	Now - Sale/Lease/Exch.	AeroDirect	Sean Miller	SMiller@aerodirect.com	+1.404.229.3723
(3) V2533-A5	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) V2527-A5	Now - Lease				
(2) V2527-S2	Now - Sale	Pratt & Whitney CSA	Jim Obrzut	james.obrzut@prattwhitney.com	+1 (860) 280-7665
(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@ftaiaaviation.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) GTCP36-150	Now - Sale	GNS	Shlomi Levi	shlomi@g-n-solutions.com	+972-52 850 8511
(2) A320 LG Shipsets, (1) A320 NLG, (1) A340 LG Shipset (1) 777-200 LG Shipset, (1) A330 LG 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	Now - Sale/Lease/Exch.	BBAM	Steve Zissis	info@bbam.com	+1 787 665 7039
(2) APS2300, (1) APS3200	Now - Sale / Lease	DASI	Chris Glascock	chris.glascock@dasi.com	+1 954-801-3592
(2) GTCP131-9A, (2) GTCP131-9B, (1) GTCP331-350 (2) APS3200B, (4) APS3200C		GA Telesis	Jay Meshay	apu@gatelesis.com	+1-954-849-3509
Engine stands: CF6-80C2, CFM56-3, CFM56-5A/B/C, PW4000			Ricky Torres	stands@gatelesis.com	+1-954-676-3111
(3) APU GTC131-9B, (1) GTCP331-500B (1) APU GTCP131-9A Engine stands now available	Now - Sale / Lease 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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