

Weekly Aviation Headline News

WORLD NEWS

Milan Bergamo gains Georgia link with flag carrier

Milan Bergamo Airport has welcomed another new carrier to its airline ranks as Georgian Airways launches a Tbilisi link from the Italian airport. The new twice-weekly service to Georgia's capital will fly with the airline's fleet of 133-seat B737s on the 2,844-kilometre sector. Adding more than 5,000 seats to the airport's capacity throughout S23, the addition of Tbilisi as a new destination further strengthens the Milan Bergamo's route map this summer, exceeding 140 direct routes.

WFS rolls out new dock management system

Worldwide Flight Services (WFS) has begun rolling out a new Dock Management System in North America, which has already reduced truck waiting times at its operations in New York JFK by more than 20%. The solution is another feature of WFS' in-house developed ePic Enterprise Solution, which is now operational at 52 WFS airport stations across the US. Epic has been designed 'by cargo people for cargo people' as a unifying e-business platform that enables collaboration and simplified communication within the cargo community stakeholders including shippers, freight forwarders, truckers, and airlines.

Southwest Airlines reaches tentative agreement with mechanics

Southwest Airlines and the Aircraft Mechanics Fraternal Association (AMFA) have reached a Tentative Agreement for the airline's mechanics and related employees. "Our mechanics and related employees work around the clock to safely maintain our aircraft, and we reached a tentative agreement that rewards them and helps Southwest maintain an efficient operation," said Adam Carlisle, VP Labour Relations at Southwest Airlines. "I'm pleased with the work from AMFA and Southwest that led to reaching this agreement quickly." This agreement covers Southwest's more than 2,800 mechanics and related employees.



Airbus concludes that overall global recovery will be roughly the third quarter of this year .

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Paris air show rakes in \$72.4 billion

Bringing confidence back to aviation industry

It was a remarkably good end to the Paris air show last week. As observed by aviation analysts at IBA, by Friday 23rd June 2023, the total orders including firm, MOUs, LOIs and options reached 1,303 aircraft, worth \$72.4bn based on IBA's 2023 Current Market Values. This is an impressive total, with only 2013 accruing a larger tally. A more interesting detail is the high number of firm orders, the highest ever at the event. Having firm orders is good news for the programmes in terms of long-term confidence in them as well as securing Pre-Delivery-Payments (PDP). Large orders will allow the operator to demand a superior price, however, the OEM may also be able to benefit from demanding higher PDP in the higher risk transactions. Operators appear to be firming up orders to secure delivery slots in an environment of supply delays.

However, with orders of such scale, questions arise as to whether the local markets can accommodate the growth. This is especially the case when the two airlines making the largest orders are in the same country.

According to news source, Yocova,

is back. We just came back from IATA, we were at the AIX exhibition in Hamburg, and talking to a lot of our customers, to a lot of airlines. We are clearly seeing that demand is there, [and] we're trying to bring the capacity back."

Airbus' conclusion seems to be that the global overall return to 2019 levels — noting substantial regional disparity, presently most notably in terms of outbound China travel — in roughly the third quarter of this year.

"We see all the strong signs for that recovery to be coming back strongly. My personal bet would be that by the end of this year, early next year, we'd be at the pre-COVID levels."

Stan Shparberg, SVP Marketing, Airbus

one of the most informative aspects of any Paris show is the series of updates on aircraft strategy from the main airframers, with Airbus' widebody media briefing trending firmly towards industry recovery and incremental improvements — and no stretches to its widebody aircraft.

A key headline message from Airbus senior vice president marketing Stan Shparberg is that "traffic

"On the international," Shparberg notes, "we're slightly below: we're roughly 89%. That's mainly driven by the APAC region, and more by the China market recovery, which is currently somewhere around 41% on the international side. We see all the strong signs for that recovery to be coming back strongly. My personal bet would be that by the end of this year, early next year, we'd be at the pre-COVID levels."

AIRCRAFT & ENGINE NEWS

TrueNoord finalises lease agreements with Breeze Airways

TrueNoord, the specialist regional aircraft lessor, has finalised operating lease agreements with Breeze Airways for three Embraer E190s. The aircraft (MSN 1900055, 1900070 and 1900132) are based in the U.S. and are already deployed across the Breeze Airways network which provides low-cost, non-stop routes to 35 underserved destinations across the U.S. They form part of the portfolio of ten Embraer aircraft that TrueNoord acquired from Nordic Aviation Capital (NAC) earlier this year. This transaction introduced new lessee airlines from North America, Canada and South Africa, as well as increased TrueNoord's fleet presence with existing European airline customers in France and Portugal.

Air Mauritius, Qantas and PAL place Airbus aircraft orders at Paris Air Show

Airbus has signed new aircraft orders with Air Mauritius, Qantas and Philippine Airlines (PAL) at the Paris Air Show. Air Mauritius has opted for three A350 aircraft to expand its network in Europe and South Asia. The three latest-generation aircraft will bring Air Mauritius' A350 fleet to a total of seven. The airline already operates four A350 and four A330 Airbus jets. Australia's Qantas Group has signed an incremental order for nine A220-300s, bringing its total backlog for the single-aisle type to 29 aircraft. The A220 was originally selected by Qantas as part of a major fleet replacement programme announced in May 2022, which also included orders for the A321XLR and A350-1000. The carrier had announced its intention to order the additional A220s in February this year. Qantas will take delivery of its first A220 at the end of this year and will operate the type primarily on its extensive domestic route network. Furthermore, Airbus and Philippine Airlines (PAL) have finalised a purchase agreement for the firm order of nine A350-1000 long-range aircraft. The A350-1000 has been selected under the Philippine carrier's Ultra-Long-Haul-Fleet project and will fly on non-stop services from Manila to North America, including to the East Coast of the U.S. and Canada. The new aircraft

NAC signs LoI for 30 eVTOLs from Eve

Nordic Aviation Capital (NAC), a regional aircraft lessor, and Eve Air Mobility (Eve) have signed a Letter of Intent (LOI) to promote the electric vertical take-off and landing (eVTOL) aircraft through optimised leasing strategies. The LoI establishes that Eve will have the opportunity to utilise NAC's global presence and asset management knowledge while NAC will



Rendering of eVTOL aircraft in NAC livery

© Eve Air Mobility

acquire 15 eVTOLs that will be leased to fleet operators plus options on 15 further eVTOLs, supporting the development and scaling of innovative transportation operations. As the third leasing company added to Eve's customer list, NAC plays a key role in the development, expansion and success of the eVTOL and Urban Air Mobility (UAM) industry by providing financing, risk management and industry expertise in additional markets across the world. The partnership also allows Eve and NAC to diversify portfolios, encourage environmental conservation and technological advancement, and expand eVTOL leasing options. With the UAM industry focused on electric aircraft, successful collaboration places an emphasis the development of environmentally friendly aviation technologies and propulsion systems for a more sustainable future. Norman C.T. Liu, President & CEO of NAC, said: "We are pleased to have signed this LOI with Eve. This is an important step in our ESG strategy, and we look forward to partnering with Eve to bring these innovative and sustainable solutions to market."

Airbus secures unprecedented order for 500 aircraft from IndiGo



IndiGo has placed a record order for 500 A320-family aircraft
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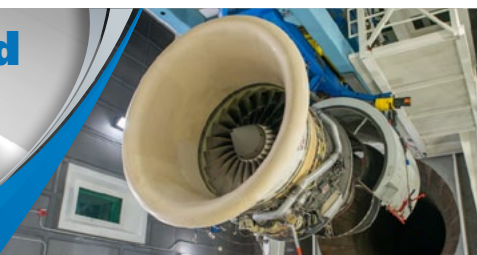
The world's largest aircraft manufacturer, Airbus, has secured a record order for 500 A320-family aircraft from India's esteemed low-cost airline, IndiGo. The momentous announcement was made by Airbus at the Paris Air Show on Monday, marking it as the largest order in history in terms of sheer quantity. IndiGo's remarkable order surpasses that of its domestic competitor, Air India, which had revealed orders and options for 470 jets from Airbus and Boeing back in February.

With both of India's largest airlines now gearing up for a robust expansion of air traffic in the region, a fierce competition for dominance is on the horizon. The delivery of the Airbus A320 narrow-body aircraft is scheduled to take place between 2030 and 2035, signifying a long-term commitment. IndiGo's CEO, Pieter Elbers, expressed immense enthusiasm, stating, "This is just the beginning; there is more to come." Considering the imminent growth of the Indian market, this major order arrives at the perfect time, as highlighted by the former KLM chief, Elbers. The order volume, based on list prices, amounts to approximately US\$50 billion (£40 billion). However, the precise level of discounts, which both business partners choose not to disclose, will be deducted from this figure. The aviation industry is witnessing a pivotal moment as IndiGo's historic order paves the way for an extraordinary expansion, while Airbus solidifies its dominance as the leading aircraft manufacturer. With their eyes set on the future, the Indian market braces itself for remarkable transformations in the skies.

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will join two A350-900s already in service with the airline. PAL's A350-1000 fleet will be able to accommodate 380 passengers in a three-class layout, with separate cabins for Business Class, Premium Economy and Economy Class.

Jet2 plc orders additional CFM LEAP-1A engines

Jet2 plc has selected CFM International's advanced LEAP-1A engines to power its further order for up to 71 new Airbus A320neo/A321neo-family aircraft, of which 35 are firm orders. The agreement includes spare engines and a long-term services support agreement, with deliveries scheduled to begin in 2028. UK-based Jet2 plc has been a CFM customer since 2002 and this latest order further extends the long-standing relationship between the two companies. In March 2022, Jet2 plc announced a first order for LEAP-1A engines to power a fleet of up to 75 Airbus A321neos, of which 63 are firm orders. The first LEAP-powered aircraft from this order entered into service in May this year. The LEAP engine family has the fastest accumulation of flight hours in commercial aviation history, amassing more than 30 million engine flight hours and 15 million flight cycles. Since entering service, the advanced LEAP-1A engine has accumulated nearly 23 million flight hours and 11 million cycles providing 15-to-20% 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 customers to save more than 20 million tonnes of CO₂.

Republic Airways orders 37 more engines

GE Aerospace will be fulfilling orders for 37 CF34-8E engines for Republic Airways' fleet of Embraer E170/175 regional jets. The order includes spares and an extension of the airline's TrueChoice™ services agreement. The Indianapolis-based airline has an all-CF34-powered fleet. It operates 214 Embraer 170/175 aircraft and offers scheduled passenger service with nearly 1,000 daily flights to 80 cities in the United States, Canada and the Caribbean. More than 2,000 CF34-8E engines are in service with 46 operators, accumulating over 38 million flight hours and 27 million cycles since entering service on the Embraer E170/175 in 2004.

Avolon signs MoU with Airbus for 20 A330neo aircraft

Avolon, the international leasing company, has signed a Memorandum of Understanding

New Rolls-Royce small engine set to begin tests

Rolls-Royce has released that its new, small gas turbine, that has been specifically developed to power hybrid-electric flight, is set to begin testing. The engine is part of a turbo generator system that is being developed for the advanced air mobility market. This includes electrical vertical take-off and landing (eVTOL) aircraft for Urban Air Mobility (UAM) and commuter



Rolls-Royce's new small gas turbine developed to power hybrid-electric flights, is set to begin testing
© Rolls-Royce

aircraft applications up to 19 seats. The turbogenerator system will complement the Rolls-Royce Electrical propulsion portfolio by delivering an on-board power source with scalable power offerings between 500kW and 1200kW enabling extended range on sustainable aviation fuels (SAF) and later, as it becomes available, through hydrogen combustion. This will open up new, longer routes than electric battery-powered aircraft can support as of today. The turbo generator system will complement the Rolls-Royce electrical propulsion portfolio by delivering an on-board power source with scalable power offerings between 500kW and 1200kW enabling extended range on sustainable aviation fuels (SAF) and later, as it becomes available, through hydrogen combustion, facilitating longer routes than electric battery powered aircraft can support as of today. This engine will be tested on SAF in the coming months and will be used for the commissioning of Rolls-Royce's test facility in Dahlewitz. The Rolls-Royce Power Gearbox test facility has been modified to accommodate testing of the new engine and to confirm the engine's technical attributes. Rolls-Royce is developing complete power and propulsion systems for all-electric and hybrid-electric applications. Our systems under design feature the latest technology, from power generation and energy storage via power electronics and control systems to electric motors.

Luxair becomes European launch customer for Boeing 737-7



Luxair has selected the Boeing 737-7 to grow its single-aisle fleet

© Boeing

Luxair, the Luxembourgish airline, and Boeing announced at the Paris Air Show 2023 that the carrier has selected the Boeing 737-7 as it continues its single-aisle growth strategy. In selecting the 737-7 the carrier will become the European launch customer for the airplane with an agreement to purchase four jets. Since March 2023, Luxair has placed orders for four 737-8s. With this latest announcement of the selection, the airline's commitment for four 737-7s will bring the airline's firm orders for the 737 to eight. The carrier will also initially lease two 737-8s, due summer 2023, before taking direct delivery of its first 737-8. "We continue to invest in Luxair's growth and this agreement for four Boeing 737-7s is an extra step towards securing a long-term future for our national airline. This type of aircraft is a perfect match for Luxair and will meet the requirements of the market. Seating 160 passengers, the 737-7 will offer flexibility across the Luxair destination network while significantly reducing fuel consumption. This will help us get even closer to our commitment to sustainable flights, while demonstrating once again our support to the promise of "Net-Zero carbon emissions by 2050" submitted by IATA," said Gilles Feith, Luxair CEO.

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(MoU) with Airbus to order 20 A330neo aircraft. Avolon's selection of the A330-900 reflects its vision to secure the earliest available slots, to take advantage of the growing wide-body demand around the world. Including owned, managed and committed aircraft, Avolon currently has a total fleet of 616 Airbus aircraft. This includes 55 A330neos as well as 208 A320ceos, 285 A320neos, 51 A330ceos and 17 A350s.

Avolon, Azorra, American Airlines and Binter firm up on orders for Embraer E2 jets

The orders placed by Avolon, Azorra, American Airlines, and Binter demonstrate the growing demand and confidence in Embraer's E2-aircraft family, as airlines seek technologically advanced and environmentally friendly solutions to meet evolving market requirements.

Avolon, a prominent international aircraft leasing company, has finalised a significant sale-and-leaseback agreement with Porter Airlines for ten state-of-the-art Embraer E-195-E2 aircraft. Valued at a list price of US\$841.2 million, these new aircraft will play a crucial role in supporting Porter's expansion plans within Canada and throughout the North American market. This landmark deal also marks Avolon's introduction of Embraer's advanced E2 aircraft into its growing fleet.

Embraer has confirmed that the previously undisclosed order, announced in January 2023, for 15 E195-E2 aircraft has been placed by Azorra—a key player in the leasing industry. This substantial order, valued at US\$1.2 billion at list price, further strengthens Embraer's Q4 2022 backlog.

In another significant development, American Airlines has solidified its commitment to Embraer by signing a firm order for seven new E175 aircraft. These aircraft will be operated by Envoy Air, a wholly owned subsidiary of American Airlines. The deliveries are set to commence in the fourth quarter of 2023, boosting Envoy's E-jets fleet to over 141 aircraft by the end of 2024.

Binter, the airline of the Canary Islands, has placed a firm order for six Embraer E195-E2 aircraft. Renowned for its exceptional performance as the quietest, cleanest, and most efficient single-aisle jet available, the E195-E2 will enhance Binter's fleet, bringing the total number of E2 aircraft to 16 upon delivery. Binter configures these jets in a comfortable single-class layout, accommodating 132 seats. With a list price value of US\$504.7 million, the deliveries are scheduled to commence in the second half of 2024. Once all contractual contingencies are cleared, this order will be included in Embraer's backlog. (£1.00 = US\$1.25 at time of publication).

Boeing receives orders for 737 MAX jets and Dreamliners



Stan Deal (l), President and CEO Boeing Commercial Airplanes and Su-Chien Hsieh, Chairman of China Airlines, signed the order for eight 787-9 Dreamliners © Boeing

Boeing has announced that it has received orders from Avolon and Air Algérie for 737 MAX jets and from China Airlines for eight Dreamliners. Avolon, the aircraft leasing company, has placed orders for 40 737 MAX jets. This order was previously unidentified on the Boeing Orders & Deliveries website. Furthermore, Air Algérie has confirmed an order for eight Boeing 737-9 jets at the Paris Air Show. The Algerian flag carrier also signed a Memorandum of Understanding (MoU) for two 737-800 Boeing Converted Freighters (BCF) to meet increasing cargo demand in the region. Air Algérie operates a single-aisle fleet of more than 30 737-500, 737-600 and 737-800 jets. Adding the 737-9 allows

the airline to carry more passengers, increasing profitability within its network. With added capacity and increased profitability, the 737-9 is designed to serve 193 passengers in a two-class configuration with a range of 3,300 nautical miles. This 737-9 order was unidentified on Boeing's Orders & Deliveries website. China Airlines has finalised an order for eight 787-9 Dreamliners. This firm order, which was previously posted to Boeing's Orders and Deliveries website as unidentified, follows the airline's first-ever order for 16 787-9s announced last year. China Airlines also becomes the newest 787-10 customer as it converts six 787-9s to the 787-10, the largest member of the 787 family, to add flexibility and capacity on its regional network as passenger demand continues to rise above pre-pandemic levels. With this order, the carrier will introduce 24 super-efficient 787s over the next several years, strengthening the airline's existing global network. The 787 enables China Airlines to reduce fuel use and emissions by 20%, which will support the airline to meet its sustainability goals.

De Havilland Canada unveils next-generation DHC-6 Twin Otter Classic 300-G

De Havilland Aircraft of Canada (De Havilland Canada) has launched the advanced DHC-6 Twin Otter® Classic 300-G™ at the Paris International Air Show. The aircraft manufacturer secured combined purchase agreements and letters of intent for a total of 45 aircraft. Brian Chafe, the CEO of De Havilland highlighted the notable features of the Classic 300-G, explaining, "Retaining the sturdy airframe propelled by Pratt & Whitney technology, the Classic 300-G boasts a lighter weight, delivering increased payload range and reduced operating costs for our customers. With a completely redesigned cabin interior and cutting-edge Garmin G1000® NXi fully integrated avionics suite in the flight deck, De Havilland Canada is once again leading the way in the utility transport aircraft market."



DHC-6 Twin Otter® Classic 300-G™ © De Havilland Canada

Carl Wolf, Vice President of Aviation Sales and Marketing at Garmin, commended De Havilland Canada's innovative approach, saying, "De Havilland Canada continues to shape aviation with its groundbreaking utility aircraft, and we are thrilled to offer our G1000 NXi integrated flight deck in the latest version of the iconic DHC-6 Twin Otter. The G1000 NXi will provide wireless cockpit connectivity, enhanced situational awareness, visual approach capability, and our state-of-the-art GFC™ 700 autopilot with envelope protection to the Classic 300-G aircraft." During the Paris International Air Show, De Havilland Canada will announce purchase agreements with its esteemed launch customers for the Twin Otter Classic 300-G. The Classic 300-G represents the fifth generation of the Twin Otter aircraft, joining the existing Series 400. DHC-6 Twin Otters fulfil various roles, including passenger transportation, VIP transport, cargo movement, medivac operations and special missions in the most challenging environments worldwide. When equipped with amphibious floats, these aircraft seamlessly transition between land and water landings. With the introduction of the DHC-6 Twin Otter Classic 300-G, De Havilland Canada strengthens its presence in the Canadian aerospace industry, creating 80 permanent production jobs in Calgary, Alberta and 91 in Victoria, British Columbia, thus bolstering the local economy.

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Boeing and Airbus secure major aircraft orders from Air India to fuel fleet expansion and innovation

At the 2023 Paris Air Show, Boeing and Air India made a ground-breaking announcement, finalising a significant order for new aircraft and expanded services. The agreement solidifies Air India's plan to renew and expand its fleet with state-of-the-art jets, showcasing a long-standing 90-year partnership with Boeing and a newfound collaboration with Airbus. Boeing, a market leader in the aviation industry, secured its largest order in South Asia, with Air India committing to acquire up to 290 new jets. The order comprises 190 737 MAXs, 20 787 Dreamliners and ten 777X jets. Additionally, Air India holds options for 50 737 MAXs and 20 787 Dreamliners, showcasing its ambitious growth strategy. This comprehensive aircraft purchase demonstrates Air India's commitment to meet the soaring passenger demand expected in South Asia over the next two decades, with the region projected to expand its fleet from 700 to 2,300 airplanes. Airbus, known for its cutting-edge innovations, also plays a vital role in Air India's transformation and growth plans. In February, Air India confirmed its order for 250 Airbus aircraft, consisting of 140 A320neo and 70 A321neo single-aisle aircraft, along with 34 A350-1000 and six A350-900 wide-body jets. This significant selection reinforces Air India's vision for sustainable growth and enhanced passenger experience. Recognising the importance of reliable maintenance and efficient digital solutions, Air India has partnered with both Boeing and Airbus. Airbus' Integrated Materials Solutions (IMS) from Satair ensures the highest level of fleet availability by promptly providing essential parts and replenishing stocks automatically. Moreover, Air India will be the launch customer for Airbus' Skywise Core X3, an advanced aviation analytics platform, emphasising the airline's commitment to transformation and digitalisation.

Croatia Airlines finalises engine and aftermarket agreement with P&W

Pratt & Whitney (P&W) and Croatia Airlines have finalised engine and aftermarket agreements for the GTF engines that will power the airline's fleet of fifteen Airbus A220-100 and A220-300 aircraft. These include six purchased and nine leased aircraft, six of which will come from Air Lease Corporation (ALC). The first aircraft is currently scheduled for delivery in the second quarter of 2024. Pratt & Whitney will provide engine maintenance for Croatia's fleet with a long-term EngineWise® maintenance agreement. Founded in 1991, Croatia Airlines is the national carrier of the

GE Aerospace secures orders from China Airlines and Riyadh Air



Riyadh Air has signed a deal for 90 GENx-1B engines to power its new Dreamliner fleet

© Riyadh Air

GE Aerospace has announced that China Airlines and Riyadh Air have ordered GENx-1B engines to power their growing Dreamliner fleets. China Airlines has ordered 17 GENx-1B engines and spares to power Boeing 787 Dreamliner commercial jets. The order also includes a comprehensive services agreement. China Airlines, a leading Taiwan-based carrier, has been a GE Aerospace customer since 1999 when it first purchased 13 GE CF6-80C2-powered Boeing 747-400 aircraft. The company currently operates a fleet of 87 aircraft, including 66 passenger jets and 21 freighters. The most recent order of 17 GENx-1B engines comes amid an aggressive fleet revitalisation effort, as the airline is aiming at improving operational efficiency and traveller experience. Following its recent agreement for a wide-body order of 39 Boeing 787-9 Dreamliner aircraft, Riyadh Air has signed a deal for 90 GENx-1B engines to power its new fleet. The order also includes spare engines and a TrueChoice services agreement. The agreement was signed at the Paris Air Show at the Riyadh Air chalet, where the airline revealed its new livery to the world following a flyby last week over Riyadh's iconic city skyline. Riyadh Air was unveiled to the world in March, and this marks the first engine partnership with GE Aerospace. The first deliveries are scheduled for early 2025 as Riyadh Air aims to operate one of the newest and most sustainable airline fleets.

Avolon opts for LEAP-1B engines to power newly ordered MAX 737 aircraft

CFM International is partnering with Avolon, the international aircraft leasing company, to provide 80 CFM International LEAP-1B engines for Avolon's recent order of 40 Boeing 737 MAX-family aircraft. The new aircraft are scheduled for delivery between 2027 and 2030. "We are pleased to partner with Avolon and grateful for their continued confidence in the LEAP engine," said Gaël Méheust,



Andy Cronin, CEO of Avolon (l) and Gaël Méheust, President & CEO of CFM International, finalise an order for 80 CFM LEAP-1B engines © CFM International

President & CEO of CFM International. "The LEAP-1B is doing incredibly well in commercial service. Every day, the LEAP product is delivering world-class fuel efficiency and utilisation, fulfilling the commitment we made to customers." Avolon, which has been a CFM customer since the company was launched in 2010, has a committed fleet of more than 400 CFM-powered aircraft in its portfolio. LEAP provides 15 to 20% 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 CFM International's customers to save more than 20 million tonnes of CO2 compared to the same flights operated using aircraft powered by previous-generation engines.

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Republic of Croatia and a member of Star Alliance. Based in Zagreb, the airline's first planes were powered by Pratt & Whitney engines, including Boeing 737-200 and McDonnell Douglas MD-82 aircraft with JT8D engines and ATR 42 aircraft powered by PW100 engines. The Pratt & Whitney GTF™ engine, featuring Collins Aerospace nacelle and engine accessories, delivers industry-leading fuel efficiency and sustainability benefits for single-aisle aircraft. It is the exclusive powerplant for the Airbus A220 family, which reduces fuel consumption and CO2 emissions up to 25% per seat, NOx emissions up to 50% and noise footprint up to 75%. Certified for operation on 50% sustainable aviation fuel (SAF) and successfully tested on 100% SAF, GTF engines are ready to enable further reductions in the carbon footprint, which will help the aviation industry meet its goal of net-zero emissions by 2050.

NAC executes lease agreement for two new ATR 72-600s with Silk Avia

NAC has executed a lease agreement for two new ATR 72-600s with Silk Avia, a regional operator based in Uzbekistan. The aircraft are from NAC's orderbook with ATR. Silk Avia is a new customer for NAC.

Zimex signs purchase agreement for two new DHC-6 Twin Otter aircraft

De Havilland Canada and Zimex Aviation (Zimex) have signed a purchase agreement for Zimex to acquire two new DHC-6 Twin Otter® Classic 300-G™ aircraft. and Zimex Aviation (Zimex) have signed a purchase agreement for Zimex to acquire two new DHC-6 Twin Otter® Classic 300-G™ aircraft. The DHC-6 Twin Otter Classic 300-G is the fifth generation of the Twin Otter aircraft, joining the current Series 400. All DHC-6 Twin Otters carry passengers, transport VIPs, move cargo, conduct medivac operations, and perform special missions in the world's most unforgiving environments. When mounted on amphibious floats, these aircraft move seamlessly between paved surfaces and water-landing areas. ZIMEX Aviation is headquartered in Switzerland and has a subsidiary in Austria. The ZIMEX Aviation Group holds a Swiss and an Austrian Air Operator Certificate, owns its maintenance repair facility and an aviation training organisation.

Indian carrier Akasa Air orders additional 737-8 jets

Akasa Air has placed an order for four additional 737-8 jets with Boeing at the Paris Air Show. Akasa Air, which launched operations in 2022 with its

ATR adopts optimistic outlook at Paris Air Show with 22 new aircraft ordered

Blagnac, France-based Franco-Italian planemaker, ATR, has announced that it has received 22 firm orders for its family of turboprop aircraft, with options on a further two. These orders have come from Mandarin Airlines, Berjaya Air, Azul and five undisclosed customers for both ATR 42 and 72 aircraft types. The orders break down as follows: Six ATR 72-600s from Mandarin Airlines, two ATR 72-600s with "All-Business Class" premium configuration from Berjaya Air, three ATR 72-600s from Azul, plus options for two additional aircraft, 8 ATR 72-600s from three undisclosed customers, and three ATR 42-600s from two undisclosed customers. Currently ATR is on schedule to deliver over forty aircraft this year which, despite supply chain problems, has remained its delivery objective for the year. According to ATR's Chief Executive Officer Nathalie Tarnaud Laude, "These new aircraft orders demonstrate clear recovery signs from South-East Asia, traditionally one of ATR's largest markets. We are confident that, in due time, the efficiency of our product offering, the lack of second-hand aircraft available and traffic exceeding pre-COVID levels in certain areas of the globe will induce a need for low-emission and versatile aircraft to support regional operators' plans of both fleet replacement and growth." She added: "ATR's purpose is to connect communities and businesses affordably and responsibly in the most complex operational environments. Already today, our aircraft emit 45% less CO2 than similar-size regional jets, and with our EVO concept, we want to cut emissions further down. Thanks also to government support, we are investing in technologies which will be used on our next generation aircraft, and we will get more results from the feasibility study by year-end." In 2023 alone ATR has increased its workforce by some 12% and to continue to support its production ramp-up and plans for the future, including the ongoing development of its Short Take-Off and Landing variant, the manufacturer is looking for more forward-thinking talent.



© ATR

Airbus receives order for 30 additional A320neos from Saudi Arabia's flynas

Airbus has confirmed that at the Paris Airshow it has received a firm order for 30 additional A320neos from flynas, the Saudi Arabian carrier. This takes the airline's total order from Airbus to 120 A320neo-family aircraft. The agreement was signed at the Paris Airshow by Bandar Almo-hanna, flynas Chief Executive Officer & Managing Director and Christian



Saudi Arabia's flynas has firmed-up orders for 30 more A320neo-family aircraft
© Airbus

Scherer, Airbus Chief Commercial Officer & Head of International, in the presence of H.E Saleh Al-Jasser Minister of Transport and Logistic Service, H.E. Abdulaziz Alduailj, President of General Authority of Civil Aviation in Saudi Arabia, and Ayed Aljeaid, Chairman of the Board of NAS Holding. The order will continue to see flynas shore up its position as one of the leading low-cost carriers in the Middle East, as well as a leading player in the Kingdom's aviation industry. The order also continues flynas' aim to keep expanding its fleet with the world's most modern and fuel-efficient single-aisle aircraft. flynas is an all-Airbus operator and was the first airline in Saudi Arabia to acquire the A320neo. The carrier currently operates a fleet of 32 A320neos, 13 A320ceos and four A330-300s. The addition of these new aircraft will support the airline's growth plans as it continues to expand its international routes and destinations network. The A320neo family incorporates the very latest technologies including new generation engines, Sharklets and aerodynamics, which together deliver at least 20 percent lower fuel burn and CO2 emission savings. With more than 8,700 orders from 136 customers, the A320neo-family is the world's most popular aircraft.

AIRCRAFT & ENGINE NEWS

first 737-8, has rapidly grown its market share and fleet to 19 airplanes across 16 destinations to support the fast-growing market in India. With the order of four additional aircraft, the Indian carrier's order book comprises 76 jets, which include 23 737-8s and 53 high-capacity 737-8-200 airplanes. The Indian carrier is operating 19 737-8s today with high-capacity 737-8-200 airplanes on order. As passenger traffic rises above pre-pandemic levels in India, the versatile 737-8 is supporting Akasa Air's growth strategy and domestic network and positions the airline for future regional expansion.

ZeroAvia secures order from Flyshare for 250 hydrogen-electric engines

ZeroAvia, a leader in zero-emission aviation, has confirmed it has received a firm order to provide 250 of its ZA2000 hydrogen-electric engines to Flyshare, Inc, which will operate under the name of Air Cahana. The carrier aims to pioneer disruptive sustainable regional air service in California and the West Coast of the United States. Based in California, Air Cahana aims to be the first carrier to deliver sustainable flight, initially through the use of Sustainable Aviation Fuel (SAF) and thereafter through the adoption of zero-emission propulsion technology. The company is homing in on operations of turboprops using ZeroAvia's zero-emission propulsion systems. ZeroAvia's innovative powertrain uses hydrogen fuel cells to generate electricity which will power electric motors to fly the aircraft, effectively with zero-emissions. Moving forward, the partners intend to collaborate on identifying the roll-out for hydrogen-electric aircraft, boosting the prospects of zero-emission commercial flights between metropolitan areas on the West Coast of the U.S. and beyond within the next five years. James Peck, Chief Customer Officer, ZeroAvia, said: "Launching a new airline is not a small challenge, but Air Cahana has an enormous advantage and can unlock a new market by being the earliest to realize the enormous operating savings and zero-emissions benefits of hydrogen-electric engines." Tony Thompson, CEO of Air Cahana, said: "We are at a turning point in aviation as we harness the power of hydrogen. By embracing this groundbreaking technology, we are making an unwavering commitment to eliminating airline emissions and dramatically reducing operating costs. With ZeroAvia's extensive flight testing and in-house IP around core technologies, we have the perfect alliance to achieve our vision. Together, we are poised to revolutionize the aviation industry, setting a new standard for a greener sky and delivering an unparalleled passenger experience. This innovative collaboration positions Cahana as the frontrunner in becoming the cleanest airline in the sky."

Avolon signs lease agreements with SalamAir

SalamAir, Oman's value-for-money airline, has announced a firm commitment to lease three Airbus A330neo aircraft from Avolon, the international aircraft leasing company. A letter of intent was signed at the Paris Air Show on June 19, 2023, and the first delivery is expected to be in October 2023. The introduction of three new Airbus A330neo wide-body aircraft will bring significant advantages to SalamAir and support the airline's fleet and network expansion plans. These modern aircraft feature a dual-class configuration with 365 economy seats and 12 premium flatbed-seats, allowing for enhanced passenger comfort and capacity. The A330neo offers a substantial increase in distance compared to SalamAir's existing fleet. One notable advantage of the A330neo is its improved fuel efficiency, resulting in reduced fuel consumption and lower CO2 emissions when compared to previous-generation aircraft. This contributes to a decrease in operational costs for the airline, aligning with their commitment to environmental sustainability.



SalamAir will add three Airbus A330neo aircraft to its fleet
© Avolon

MRO & PRODUCTION NEWS

MTU and MT Aerospace to develop liquid-hydrogen fuel system



Barnaby Law, Chief-Engineer Flying Fuel Cell™ of MTU Aero Engines (L.) and Markus Staudt, Vice President and Head of Business Development Export, Defence & Hydrogen of MT Aerospace © MTU

MTU Aero Engines (MTU) and aerospace company MT Aerospace have announced a collaborative effort to develop a comprehensive liquid hydrogen (LH2) fuel system for commercial aviation. The partnership, unveiled at the Paris Air Show in Le Bourget, aims to advance the vision of zero-emission flight. The initial application of this endeavour will be MTU's innovative Flying Fuel Cell™. Barnaby Law, Chief Engineer Flying Fuel Cell for MTU, emphasised the longstanding successful partnership and shared commitment to zero-emission aviation. The joint development of the LH2 fuel system began approximately three years ago, encompassing tanks, sensors, heat exchangers, valves, safety systems and control systems. Law expressed optimism about the project's progress, with plans to conduct the first system test at MT Aerospace in Augsburg, Germany, by the end of the year. Markus Staudt, Vice President and Head of Business Development Export, Defence & Hydrogen at MT Aerospace, highlighted the company's extensive expertise with hydrogen in the aerospace sector and the ambition to apply it to commercial aviation. The aerospace experts will focus on cryogenic hydrogen storage and supply systems, additively manufactured heat exchangers, sensors and system integration. Dr Günther Schullerer, Director of Engineering at MT Aerospace, explained that this expertise derives from sustainable technology innovations and numerous product-based cryogenic system tests. MTU's scope of work includes the safety system, control system, valve technology, and overall systems leadership. The collaboration closely involves the European Union Aviation Safety Agency (EASA) to ensure compliance with certification and safety-related requirements. Starting in 2035, the MTU fuel cell will be utilised on shorter routes within the shuttle and regional aviation sector. As its efficiency improves, the system will expand to cover short- and medium-haul routes, further reducing the climate impact of commercial aviation. Law also notes the possibility of modifying the LH2 fuel system, currently being developed for the FFC, to enable direct hydrogen combustion in aircraft engines. The joint efforts of MTU Aero Engines and MT Aerospace reflect their commitment to sustainable aviation and the development of innovative solutions that pave the way for zero-emission flight.

MRO & PRODUCTION NEWS

AFI KLM E&M extends Trent XWB capabilities as part of engine MRO portfolio

AFI KLM E&M and Rolls-Royce have announced the conclusion of an incremental agreement for the maintenance and repair of Trent XWB engines powering Airbus A350 aircraft. This new agreement will reinforce AFI KLM E&M as a valued partner in the British engine manufacturer's global support network. Based on its Airline-MRO DNA, AFI KLM E&M is setting up full maintenance capabilities for the engine type covering its entire life cycle. This partnership builds on the agreement signed between the two companies in 2014 as part of Air France-KLM Group's acquisition of Airbus A350 aircraft. As a reminder, the airline has ordered 38 A350s, of which 20 have been delivered so far. This new agreement with Rolls-Royce feeds into the Airline-MRO strategy deployed by AFI KLM E&M, which is based on the continuous development of industrial capabilities in order to support its parent fleets as well as worldwide operators. AFI KLM E&M is confirming and boosting its leading position in the maintenance of new-generation platforms, having established industrial capabilities for the GE90, GENx and more recently, LEAP and PW1500 engines.

Farsound and long-time customer Iberia renew contract

UK aviation supply chain solutions specialist, Farsound, has signed a new contract with Iberia, the Spanish flag-carrying airline. The contract renewal follows many years of successful partnership. Farsound provides advanced kitting solutions directly to Iberia's assembly lines, ensuring all required parts are sent to a single point of use. The service is designed to fit seamlessly with Iberia's own supply chain and workflow. Farsound's inspection and parts recovery service has become invaluable, maintaining full stock consignments of aero engine parts to ensure that customers can order and receive what they need right away. Farsound has strengthened its presence in Spain, by opening a brand-new bespoke facility in the town of San Fernando de Henares in the province of Madrid. The facility was built for the express purpose of servicing Iberia's fleet, as well as Farsound's other key airline customers across Europe. The Farsound team provides a range of logistics and supply chain solutions, including kitting solutions, warehouse management, line feed solutions and aviation parts. Iberia will particularly benefit from added innovations inside Farsound's facility, including a new bespoke multi-capacity kitting cabinet, designed and manufactured specifically to transport parts around the facility for improved operations and customer service. The trolley

RECARO to equip Qantas' A350 economy cabin with new seats



RECARO will equip the Qantas A350 economy cabin with the brand-new CL3810 seat © RECARO

RECARO Aircraft Seating (RECARO) has been selected to equip the Qantas A350 economy cabin with the brand-new CL3810 seat. This is the first time the award-winning CL3810 will be used on record breaking non-stop flights from Australia to any city in the world. The airline is slated to take delivery of its first A350 in late 2025, a total of 140 seats to be installed on each of the 12 A350-1000 aircraft and are a part of "Project Sunrise." Pitched at 33" with a gener-

ous 6" recline, the CL3810 has a six-way adjustable headrest, articulating seat pan for added comfort when reclining and custom-shaped cushions to provide long-haul passengers with an enhanced sleeping experience. Built with a lightweight structure, the CL3810 is nearly 15% lighter than its predecessor. The seat also offers passengers extra knee space. "Our partnership with Qantas has grown and evolved over almost 20 years. However, one thing hasn't changed: the united commitment to push the boundary of travel innovation," said Dr Mark Hiller, CEO of RECARO Aircraft Seating and RECARO Holding. "Project Sunrise' allows the seat's design and ergonomic innovations to shine through, and I am confident our CL3810 will play a key role in providing a comfortable passenger journey." Both the Qantas and RECARO teams collaborated to introduce features, enhancing passenger convenience and comfort. Travelers can look forward to the latest inflight entertainment system, the Panasonic Astrova with a 13.3-inch OLED screen, 3-D spatial audio, Bluetooth, 4K resolution, and 67W of USB-C power at every seat to keep passenger electronic devices fully charged throughout the flight.

SR Technics signs offload agreement with Safran Aircraft Engines for LEAP-1A engines

SR Technics, a world leading MRO service provider, has signed a five-year agreement with Safran Aircraft Engines, one of CFM International's parent companies, for SR Technics to provide quick-turn maintenance offload support to LEAP-1A engines. This multi-year agreement follows earlier agreements signed with Safran for CFM56-5B, CFM56-7B, and LEAP-1B engines, demonstrating a strong commitment by SR Technics to continuously



LEAP-1A engine

© SR Technics

strengthen its support for CFM engines and the market. The first shop visit is scheduled in July 2023. SR Technics and Safran Aircraft Engines have, over the years, developed a firm and enduring relationship, built on mutual trust. In October 2022, SR Technics signed a LEAP-1B/1A General Support License Agreement (GSLA) with CFM International. This has enabled SR Technics to support customers for the new-generation LEAP engine platform. The LEAP engine services will be an integral part of SR Technics' organisation and product portfolio in Zurich, Switzerland. The core team of engine mechanics and engineers is already trained by Safran Aircraft Engines on the initial work scopes, backed by the industrialisation process, which is in progress. SR Technics recently announced the ground-breaking of its Test Cell 2 facility in Zurich, which will also include LEAP-1A/1B and CFM56-5B/7B capabilities.

MRO & PRODUCTION NEWS

system has been proving highly successful at the San Fernando de Henares premises and is now being rolled out to other Farsound global facilities.

Avianor launches construction of Centre of Excellence for A220 aircraft

Avianor, a company owned by DRAKKAR Aerospace & Ground Transportation, specialised in aircraft MRO and cabin integration has officially launched the construction of its Centre of Excellence for the A220 aircraft at the Montreal-Mirabel International Airport (YMX). The announcement was made by Denis Deschamps, Co-founder, President and CEO of DRAKKAR, accompanied by the Minister of the Economy, Innovation and Energy (MEIE), Pierre Fitzgibbon, at the International Paris Air Show. Scheduled to open in fall of 2024, the Centre of Excellence represents an investment of more than CA\$70 million in infrastructure, digitisation and state-of-the-art equipment, including a government loan of CAA\$9 million from the Minister of the Economy, Innovation and Energy. The brand-new 105,000 ft² hangar will create over 100 highly specialised maintenance jobs. Avianor will therefore have four additional maintenance lines to accommodate the A220 aircraft and potentially other types of narrow-body aircraft programmes, for a total asset of seven maintenance lines in service. (£1.00 = CA\$1.68 at time of publication).

Lufthansa Technik extends engine MRO partnership with Japanese airline StarFlyer

StarFlyer and Lufthansa Technik have signed a long-term exclusive contract for MRO services on the engines of the Japanese airline's Airbus A320ceo and A320neo fleets. Under the terms of the contract, Lufthansa Technik will provide StarFlyer with comprehensive technical support for CFM56-5B and LEAP-1A powerplants even into the next decade. The MRO company is thus further expanding its customer base for the modern LEAP engine in Asia. StarFlyer has received its first LEAP-equipped Airbus A320neo aircraft and plans to begin operating it from July 4. It will be followed successively by two more aircraft of this type, which are scheduled to join the fleet in 2024 and 2025. The three A320neos complement the current fleet of ten active Airbus A320ceos powered by CFM56 engines, for which Lufthansa Technik will also provide a wide range of MRO services. These range from basic inspections, boroscopy, AOG support, on-wing troubleshooting, engine condition monitoring and engine parts repair to complete overhauls that restore the engines to "as good as new" condition.

Dovetail to develop electric propulsion system with Hyundai hydrogen fuel cell system



Dovetail Electric Aviation and Hyundai to develop electric propulsion system
© Rex

Dovetail Electric Aviation (Dovetail) has released that Hyundai Motor Group's HTWO is to supply a hydrogen fuel cell system for electric aviation powertrain trials. HTWO is a fuel cell system-based hydrogen business brand of Hyundai Motor Group. Rex announced in April that it had taken a 20% stake in Dovetail and has been actively working with Dovetail to advance pioneering the conversion of turbine-powered aircraft

to electric propulsion, nil-emission propulsion. Dovetail will use HTWO's fuel cell system for initial testing in Australia, to be integrated with Dovetail's Iron Bird, that was successfully tested last February and that integrates a +250kw aviation electric motor with all the required power electronics and controls. Dovetail will run the HTWO's fuel cell system as a prior step to full-scale trials, and a future first flight as early as next year. This breakthrough will bring the Australian aviation industry one step closer to a greener and more sustainable future. Under this agreement, Dovetail will utilise HTWO's proven hydrogen technology from FCEV and apply the learnings to aviation for its proprietary integrated powerplant. HTWO's expertise in fuel cell technology, coupled with Dovetail's proprietary aviation technology, will bring significant advancements to the aerospace industry. This opportunity will allow Dovetail Electric Aviation to continue to develop and refine its electric propulsion system, enhancing it with the power of hydrogen and extending its applicability and value for future operators.

Joby Aviation and GKN Aerospace sign multi-year agreement

Joby Aviation, which is developing all-electric aircraft for commercial passenger service, and GKN Aerospace have signed a multi-year agreement for the supply of thermoplastic flight control surfaces for Joby aircraft. This collaboration, signed at the Paris Air Show, marks an important step towards Joby's goal of using its aircraft to deliver a fast, quiet and convenient air taxi service in cities around the world. GKN Aerospace has been working closely with Joby on the application of



JoeBen Bevirt (r), founder and CEO of Joby and GKN Aerospace President Civil Airframe, John Pritchard, at the signing ceremony at the Paris Air Show
© GKN Aerospace

an innovative thermoplastic concept specifically tailored to the Joby eVTOL aircraft. The flight control surfaces will be composed of a lightweight thermoplastic structure assembly, manufactured using an advanced out-of-autoclave production method. This cutting-edge manufacturing process will enable high-rate production while delivering on the high-performance requirements of Joby's aircraft. Leveraging Joby's design input as the aircraft integrator, GKN Aerospace will undertake the detailed design of the flight control surfaces. The development and initial production work will be carried out at the Global Technology Centre in Hoogeveen, Netherlands, before transitioning to GKN Aerospace's facility in Chihuahua, Mexico. The final products will be delivered directly to Joby's pilot production line in Marina, California.

MRO & PRODUCTION NEWS

Daher and Ascendence Flight Technologies join forces

The collaboration between Daher Aerospace and Ascendence Flight Technologies further underlines Daher Group ambitions to leverage innovation and accelerate the decarbonization of its activities, with particular emphasis on its Aircraft division. These decarbonisation ambitions are set out in the Take-Off 2027 strategic plan announced by Daher earlier this year and are supported by a high level of R&D project investment, made possible by the fact that this innovation budget has quadrupled since 2017. Ascendence Flight Technologies is a French start-up and pioneer in the low-carbon aviation market. Founded in 2018, the company develops solutions, technologies and hardware to hybridise propulsion systems, and leverages the potential of hybridization to accelerate the transition to a new model of air mobility. The Toulouse-based start-up will contribute its expertise in hybrid-electric propulsion systems architecture, modelling, integration and testing to the collaboration with Daher. As a result, it will be able to test its technology on successful CS23-category aircraft, designed and marketed by Daher Aerospace, a leader in its market segment.

Oerlikon and MTU Aero Engines sign development cooperation agreement

Oerlikon and MTU Aero Engines intend to collaborate on the further development of engine parts, materials, and surface technologies for aero engines. At the Paris Air Show, the two companies – represented by Dr Sven Hicken (CTO of Oerlikon Surface Solutions) and Dr Silke Maurer (COO at MTU Aero Engines) – signed a five-year agreement to this effect. Both partners will contribute their unique technological know-how and industry expertise to further optimize the efficiency and sustainability of engine parts. The collaboration will focus on the development of future coatings and materials and will cover various aspects, including automation, digitization, and the associated industrialization for both series applications (OEM business) and the maintenance sector (MRO – Maintenance, Repair and Overhaul).

Airbus to trial in-flight auxiliary power entirely generated by hydrogen

Airbus UpNext has launched a new demonstrator programme to explore on the ground and in flight, a new architecture for the generation of non-propulsive energy through the use of hydrogen fuel cells. On conventional

Lanzhou Aviation becomes launch customer for Embraer P2F conversion



Lanzhou Group has signed an LoA for 20 E190F and E195F E-Jets P2F conversions

© Embraer

Embraer has confirmed it signed a Letter of Agreement (LoA) at the Paris Air Show with Lanzhou Aviation Industry Development Group for 20 E190F and E195F E-Jets Passenger-to-Freighter conversions (P2F). Embraer and Lanzhou intend to cooperate on establishing E190F and E195F conversion capability in Lanzhou, China, which will support and accelerate the introduction of E-Jet's first-generation freighters to the Chinese market. The cooperation will serve as an initial starting point for both companies to leverage their strengths, jointly promote the development of Lanzhou's air transportation industry and boost the economy around the airport. With the signing of this LoA, Lanzhou Group, becomes the launch customer for Embraer's P2F conversion in China and the base in China for Embraer's P2F conversions. "The LoA signed with Lanzhou Group today is a strong indicator of the demand we are seeing for our E-Jet freight conversions in China," said Johann Bordais, President & CEO, Embraer Services and Support. "It's great to welcome Lanzhou to join our E-Jets freighter family. We're glad to help them integrate into the E190/E195 conversion network and speed up our P2F efforts in China so that more Embraer freighters can be delivered to our Chinese customers in the future." Embraer launched the E190F and E195F passenger-to-freighter conversion programmes in March 2022, supporting the high demand for cargo and positive market trends in China. Embraer forecasts a market demand for 700 E-Jet freighters over the next 20 years, among which, the Chinese market is forecast to need 240 freighters of this size, accounting for 34% of the global total, powered by demand from the e-commerce and logistics sectors.

GKN Aerospace unveils Global Technology Centre (GTC)

GKN Aerospace has opened its latest Global Technology Centre (GTC), in Hoozeveen, the Netherlands. This state-of-the-art facility, which was opened last month, is part of GKN Aerospace's substantial €80 million (£68 million) investment in the Netherlands. The cutting-edge centre serves as a dynamic environment for



The new GTC facility in Hoozeveen, the Netherlands

© GKN Aerospace

research and accelerated development of the latest sustainable aerospace technologies. The Netherlands GTC's primary focus will be on advancing lightweight thermoplastic composites for the next generation of aircraft, while also spearheading an extensive R&D electrification program in collaboration with GKN Fokker sites in Hoogerheide and Papendrecht. The thermoplastics research programmes at the GTC aim to pioneer new lightweight composite materials and processes that enable scalable and cost-effective high-volume production for the next generation of single-aisle aircraft. Leveraging advanced thermoplastic composites enable weight reduction of at least 10% compared to traditional aircraft materials. Furthermore, thermoplastics boast superior production efficiency, excellent fire safety characteristics and high recyclability, and therefore, present an affordable and sustainable solution for aircraft structural components.

MRO & PRODUCTION NEWS

airliners, together with the main engines the APU (Auxiliary Power Unit), a small additional engine that runs on traditional jet fuel, provides the energy required to power a number of non-propulsive aircraft functions, such as air conditioning, onboard lighting and electric power for avionics. With this new technology demonstrator, led from its facilities in Spain, Airbus UpNext will replace the actual APU of an A330 with a hydrogen fuel cell system that will generate electricity. Known as HyPower, the hydrogen fuel cell demonstrator also aims to reduce the emissions of CO₂, nitrogen oxides (NO_x) and noise levels associated with a traditional APU. New design features and integration techniques will also contribute to maturing the safety and operations of future hydrogen-powered aircraft and will demonstrate the stable operation of a fuel cell in-flight, including its restart. "These tests will mark a new step in our decarbonisation journey and ZEROe programme through an ambitious flight demonstration that will take to the air by end 2025," said Michael Augello, CEO of Airbus UpNext. "We want to demonstrate the operability and integration of the system, including refuelling the aircraft with hydrogen. We will demonstrate this system in realistic conditions, climbing to 25,000 ft and flying for one hour with 10kg of gaseous hydrogen on board. However, we cannot do this alone and our cooperation with the Spanish Government and external partners will be key enablers of these series of tests." The flight test campaign will utilise a modified Airbus A330 and a ground test bed of the system. Airbus UpNext will procure a production unit for renewable hydrogen to fulfil the entire need for the test campaign.

Eve Air Mobility confirms three suppliers for its eVTOL aircraft

Eve Air Mobility (Eve) has confirmed that it has chosen three suppliers for elements of its electric vertical take-off and landing (eVTOL) aircraft. DUC Hélice Propellers will supply the rotors and propellers, BAE Systems will provide an advanced energy storage system, and Nidec Aerospace LLC, a joint venture between Nidec Corporation and Embraer, will provide the electric propulsion system.

Nidec Aerospace LLC, a joint venture between Japan's Nidec and Brazil's Embraer and a leading comprehensive motor manufacturer, will produce the electric propulsion system. The company will be supported by Embraer's over-50-year history of aerospace experience to design, certify, produce and commercialise next-generation electric propulsion systems. BAE Systems' energy storage system will be

AFI KLM E&M signs multiple new contracts at Paris Air Show



Contract signing between AFI KLM E&M and CMA CGM AIR CARGO at the Paris Air Show

© AFI KLM E&M

Air France Industries KLM Engineering & Maintenance (AFI KLM E&M), a major multi-product MRO provider has signed multiple new services agreements at the Paris Air Show.

AFI KLM E&M has been selected by CMA CGM AIR CARGO, the full-freighter air company of CMA CGM Group, to provide engine and component support for the two Boeing 777 freighters recently added to its all-cargo fleet. The two new aircraft were delivered to the transporter on May 31 and June 7, 2022, respectively and will be used to fly international routes out of CMA CGM AIR CARGO's base at Paris-Charles de Gaulle airport. As a recognised specialist in A330 maintenance, AFI KLM E&M will also maintain the components of CMA CGM AIR CARGO's A330F fleet. Additionally, the company will also provide component support for CMA CGM AIR CARGO's four Airbus A330F, including access to its dedicated pool.

SF Airlines has selected AFI KLM E&M to provide performance restoration shop visits for seven CF6-80C2 engines. Through this new cooperation, the two groups are continuing a successful partnership founded 15 years ago, over the course of which AFI KLM E&M has already performed heavy shop visits for 22 of SF Airlines' engines.

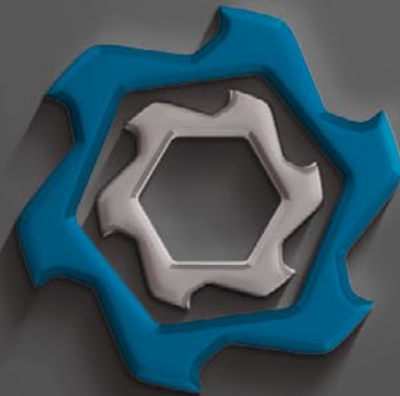
Furthermore, AFI KLM E&M will provide full support for JetBlue's over-200 components on the airline's fleet of A220 aircraft. JetBlue has ordered 100 of the new-generation narrow-body aircraft from Airbus, which will eventually replace its Embraer 190 fleet and help support its current A320 route structure. AFI KLM E&M, together with JetBlue, developed and finalized this efficient and economical programme which includes repairs, provision of on-site stock (OSS) and access to a pool of A220 Inventory. Barfield, AFI KLM E&M's North American affiliate, will manage the delivery of these services and provide JetBlue with exceptional close-range on-hand support.

Air Austral is once again leaning into the expertise and support provided by AFI KLM E&M through its wholly owned subsidiary EPCOR. This time for the maintenance of the APUs (GTCP131-9C) powering its medium-haul fleet of three A220s. Air Austral is a longstanding customer and the two players also recently signed a component support agreement for the Reunion-based airline's A220 aircraft. The latest contract covers the repair and servicing of APUs, the supply of a replacement unit and access to AFI KLM E&M's predictive maintenance solutions via Prognos[®] for APU. These services will be managed and delivered by EPCOR, AFI KLM E&M's centre of excellence for APU support.

integrated into Eve's eVTOL, enabling the aircraft to operate efficiently with zero-emissions and minimal noise. The energy storage system will leverage the company's over-25 years of experience in providing dependable electric power and propulsion for multiple heavy-duty vehicles. That experience combined with its history of developing flight critical control systems for aerospace is ideal for Urban Air Mobility (UAM) applications which will require

safety, reliability and efficiency.

DUC Hélice Propellers will supply the rotors for the eight lift motors and the cruise propeller. Based in France and with facilities in the U.S.A., the company has an expertise in the analysis, design, development, manufacture and maintenance of propellers, rotors, fans and other carbon composite aeronautical accessories acquired through the multiple aviation programmes in which it participates.



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FINANCIAL NEWS

MTU Aero Engines raises earnings forecast for 2023

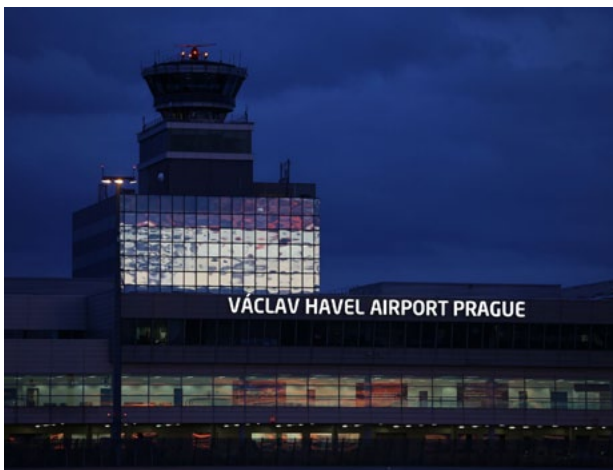
MTU Aero Engines (MTU), Germany's leading engine manufacturer, is raising its earnings forecast for the current financial year in light of expectations regarding future business development. The company now expects an adjusted EBIT of more than €800 million. This represents a slight year-on-year increase in the adjusted EBIT margin, compared to the previous guidance of a stable adjusted EBIT margin. Free cash flow in 2023 is expected to be above the previous year's level of €326 million, as already announced at the end of April. Revenue guidance for 2023 remains at €6.1 to €6.3 billion, with growth expectations for the segments largely unchanged. MTU is a technological leader in low-pressure turbines, high-pressure compressors, turbine centre frames as well as manufacturing processes and repair techniques. In the commercial OEM business, the company plays a key role in the development, manufacturing and marketing of high-tech components together with international partners. Some 30% of today's active aircraft in service worldwide have MTU components on board. In the commercial maintenance sector, the company ranks among the top-three service providers for commercial aircraft engines and industrial gas turbines. (£1.00 = €1.17 at time of publication).

OTHER NEWS

RECARO Aircraft Seating (RECARO) and **Embraer** have inked a deal to develop a Supplier Furnished Equipment (SFE) catalogue of seats for E1 and E2 aircraft. The SFE catalogue will include the BL3710 and SL3710 economy-class seats and will be available for line fit and retrofit configurations. Development of the SFE catalogue will kick off in Q3 2023. Seats will become eligible for offers in mid-2024. Airlines and lessors with short lead times will benefit from the catalogue's pre-certified seats and quick turnaround time. Embraer's customers will have access to distinguished RECARO heritage focused on seat ergonomics, reliability and low weight, guaranteeing comfortable journeys to passengers and best operational cost to airlines. The RECARO catalogue will be based on BL3710 and SL3710 seats, two best-selling RECARO products tailored to short- and mid-range flights. BL3710 comes with a variety of optional features, including in-seat power supply system (ISPSS), tablet holder, unique six-way headrest and a maximum 5-inch recline. SL3710 will feature options for ISPSS and two backrest angles. Different plastic colours are also available in combination with a spectrum of dress cover colours.

MRO & PRODUCTION NEWS

Prague Airport initiates search for strategic partner for Czech Airlines Technics



Prague Airport is seeking a strategic partner for Czech Airlines Technics
© Prague Airport

Prague Airport, in collaboration with EY Transaction Advisory, has commenced the process of seeking a strategic partner for its subsidiary, Czech Airlines Technics (CSAT). The primary objective is to enhance CSAT's competitiveness and ensure its appeal to customers. "The initial step involves reaching out to potential partners who operate in the aviation repair and maintenance sector. Subsequent rounds of negotiations will follow, narrowing

down the selection and identifying the most suitable partner. Our aim is to conclude the process in the first half of next year, while closely cooperating with our sole shareholder," said Jiří Pos, Chairman of the Prague Airport Board of Directors. He added, "The evaluation of offers received will prioritise fostering an optimal partnership, assessing future synergies with Prague Airport, and outlining development activities." Established on August 1, 2010, as a subsidiary of Czech Airlines, Czech Airlines Technics became a wholly owned subsidiary of Český Aeroholding, a.s. in April 2012. Following a national merger by acquisition in October 2018, Prague Airport became the sole shareholder. With nearly a century of experience in hangar maintenance for various manufacturers' jet aircraft and aircraft equipment, Czech Airlines Technics, formerly the technical department of the Czech national carrier, boasts a team of over 600 skilled technicians, engineers, and administrative staff. The company is committed to delivering high-quality services and work while strictly adhering to safety standards.

Lufthansa Technik extends engine MRO partnership with Japanese airline StarFlyer

StarFlyer and Lufthansa Technik have signed a long-term exclusive contract for MRO services on the engines of the Japanese airline's Airbus A320ceo and A320neo fleets. Under the terms of the contract, Lufthansa Technik will provide StarFlyer with comprehensive technical support for CFM56-5B and LEAP-1A powerplants even into the next decade. The MRO company is thus further expanding its customer base for the modern LEAP engine in Asia. StarFlyer has received its first LEAP-equipped Airbus A320neo aircraft and plans to begin operating it from July 4. It will be followed successively by two more aircraft of this type, which are scheduled to join the fleet in 2024 and 2025. The three A320neos complement the current fleet of ten active Airbus A320ceos powered by CFM56 engines, for which Lufthansa Technik will also provide a wide range of MRO services. These range from basic inspections, boroscopy, AOG support, on-wing troubleshooting, engine condition monitoring and engine parts repair to complete overhauls that restore the engines to "as good as new" condition. "Lufthansa Technik has been an important partner for us to support our reliable operations of A320 fleet since March 2006 when we started our flight operations," said Toshihiko Noguchi, Senior Vice President Engineering and Maintenance Division at StarFlyer. "I am looking forward to establishing a stronger and longer relationship between Lufthansa Technik and StarFlyer by this renewal of the engine maintenance service agreement which will support LEAP-1A engines as well."



StarFlyer LEAP-1A engine © Airbus

OTHER NEWS

Etihad Cargo, the cargo and logistics arm of **Etihad Airways**, has welcomed senior leaders from China's **SF Airlines** to Abu Dhabi to review the reciprocal block space agreement between the two airlines announced earlier this year and explore opportunities to expand it further based on Abu Dhabi's strategic location. During the visit, Etihad Airways and SF Airlines entered into an expanded Memorandum of Understanding (MoU) to cement their commitment to strengthening ties and further cooperating to increase cargo capacity between China and the rest of the world via Etihad Cargo's hub in Abu Dhabi. In April 2023, Etihad Cargo and SF Airlines signed a reciprocal capacity agreement to connect their respective networks. The new partnership saw the launch of two weekly freighter services between Abu Dhabi Airport and Wuhan Tianhe International Airport in the Hubei Province of China and added a fourth Chinese gateway destination to Etihad Cargo's expanding global network. The new flights have given Etihad Cargo's partners and customers greater accessibility to 25 domestic Chinese destinations, including Shenzhen, Hangzhou, Chengdu and Nanjing. Via the agreement, SF Airlines has expanded its Middle Eastern footprint and benefits from Etihad Cargo's global network for its express product, supporting the airline's vision of growing its parcel delivery capabilities around the world. The new MoU, signed on June 16, 2023, expands the cooperation between the two airlines and strengthens their commitment to exploring additional opportunities to achieve mutual growth and expand their respective networks via the Abu Dhabi and Wuhan megahubs. Future plans include expanding cooperated

MRO & PRODUCTION NEWS

A*STAR and SME ATC collaborate on sustainable MRO repair work for SIA

The Agency for Science, Technology and Research (A*STAR) and local SME, Applied Total Control Treatment Pte Ltd (ATC) have completed a technology transfer, enabling ATC to take over the repair line for the refurbishment of Singapore Airlines' (SIA) cabin components. The repair line allows SIA to integrate sustain-



A*STAR and local SME ATC collaborate to refurbish Singapore Airlines' cabin components © A*STAR

able practices into its maintenance, repair and overhaul (MRO) processes by adopting a repair and reuse strategy. Under the joint laboratory set up by SIA, SIA Engineering Company (SIAEC) and A*STAR's Singapore Institute of Manufacturing Technology (SIMTech) in 2019, A*STAR's SIMTech developed repair process methodologies designed to recoat surface-damaged copper trims. This new technology has allowed SIA to reduce the amount of waste generated from discarded copper trims and significantly decrease the lead time for the replacement of copper trims. Through the pilot repair line set up by A*STAR's SIMTech, more than 2,000 repaired trims have been delivered to SIA and SIAEC. The repaired trims are 50 per cent more durable according to laboratory test results. With this repair line, the lead time for replacement has decreased from six months, for procuring Original Equipment Manufacturer (OEM) parts for replacement, to just three weeks for repairs using the new technology. To continue and scale up the repair work for SIA and SIAEC, A*STAR's SIMTech and ATC signed a license agreement to facilitate a technology transfer, enabling ATC to take command of the repair line. This includes moving the production line to ATC, as well as providing training to ATC's technical team to operate the repair process and maintain the repair line.

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OTHER NEWS

flights to Ezhou Huahu Airport, China's first cargo-focused airport. This move would make Etihad Airways the first international airline other than SF Airlines to operate flights to the airport. Under the new agreement, Etihad Cargo and SF Airlines will review the schedule of services between Abu Dhabi and Wuhan with a view to increasing frequencies, thereby ensuring the airlines can meet increasing capacity demands from customers and partners in the UAE, China and around the world.

The **European Union Aviation Safety Agency (EASA)** and the **Japan Civil Aviation Bureau (JCAB)** have taken a significant step forward in their collaboration by signing a Letter of Intent (LoI) on the implementation of the EU-Japan Aviation Partnership Project and a Memorandum of Cooperation (MoC). This landmark agreement aims to enhance safety, promote regulatory harmonization, and foster mutual cooperation between the European Union and Japan in the aviation sector. The LoI between EASA and JCAB signifies their joint commitment to developing an aviation partnership project, focused on areas such as unmanned aircraft systems (UAS), urban aerial mobility (UAM), airworthiness, maintenance, operations, safety management and environmental protection. By sharing knowledge, expertise, and best practices, both organizations aim to strengthen the aviation industry's resilience and high standards. The project forms part of an EU-funded programme which aims at enhancing the partnership between the EU and North Asian countries in the domain of civil aviation. The MoC on aviation safety emphasises the mutual interest of EASA and JCAB in fostering closer collaboration in the field of aviation safety, new technologies and environmental protection. The two agencies will exchange information and facilitate technical assistance programs to enhance cooperation in these areas. The signing of these agreements between EASA and JCAB reflects the growing importance of international cooperation in aviation. It marks the beginning of an exciting chapter of cooperation, with the potential to inspire further international collaborations in the field of aviation safety and environmental protection.

In a significant collaboration, **Airbus** and **LanzaJet**, a renowned sustainable fuels technology company, have announced the signing of a memorandum of understanding (MOU) to address the aviation sector's requirements by producing sustainable aviation fuel (SAF). This MOU solidifies the partnership between Airbus and LanzaJet, with the primary objective of establishing SAF facilities that will utilise LanzaJet's well-established and

MILITARY AND DEFENCE

GKN Aerospace announces first delivery of F-35 wheels and brakes serviced at Dutch facility



F-35 jet

© GKN Aerospace

GKN Aerospace has revealed the successful delivery of the first set of wheels and brakes assemblies for the F-35 Lightning II aircraft. These components were serviced and maintained at GKN Fokker's landing gear facility in The Netherlands. This delivery signifies the initial shipment under the contract to service and maintain wheels, brakes and strut assemblies for the F-35 fleet in Europe. GKN Aerospace's Fokker division secured the contract from the Joint Programme Office to maintain and service the F-35 landing gear. The selection was based on Fokker's extensive experience in landing gear maintenance, repair, and overhaul (MRO) for other platforms, including the F-16 and NH-90 helicopter. In addition to its maintenance activities, GKN Aerospace's landing gear business is also engaged in the design and manufacture of the F-35 arresting gear and the development of the F-35 composite landing gear drag brace. GKN Aerospace has been a key participant in the F-35 programme since its inception, contributing to various components such as electrical wiring interconnected systems, flaperons, in-flight opening doors, cockpit canopies, airframe parts and arresting gear for all F-35 aircraft.

StandardAero inks ten-year agreement with Sabena technics to support CT7-9C engines

StandardAero and Sabena technics have signed a ten-year agreement that designates StandardAero will provide engine maintenance, repair, and overhaul (MRO) services as well as in-field support for the GE CT7-9C and CT7-9C3 turboprop engines powering the French Army CASA 235 operations. StandardAero is a leading provider of world-class maintenance, repair and overhaul (MRO) services for the GE Aerospace CT7/T700 family, supporting the type from overhaul facilities in Canada and the United Kingdom. The company supports operators of the Airbus CN235 tactical transport and the Saab 340 regional airliner from its UK facility, which has held GE Aviation approval on various models of the CT7/T700 series since 1984. StandardAero

provides a full range of MRO services for all variants of the CT7 turboprop family, including engine testing. Sabena technics, based in Dinard, France, is an independent MRO provider that offers services to civil and military aircraft operators and will be managing the maintenance of the French Army CASA 235 fleet of 27 aircraft including the engines. The MRO services to the French Army's CT7 engine fleet will be carried out at StandardAero's UK facilities in Portsmouth and Fleetlands. The CASA 235 is used for tactical missions to drop paratroopers or equipment and for public service operations such as medical evacuation and can be deployed rapidly into theatres of operations. The aircraft's new state-of-the-art and intuitive avionics will meet the standards of the Single European Sky and enable French forces to integrate into non-segregated airspace with no restrictions and conduct their missions quickly and efficiently.

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proprietary Alcohol-to-Jet (ATJ) technology. The agreement also seeks to expedite the certification and adoption of 100% drop-in SAF, enabling existing aircraft to operate without relying on fossil fuels. The aviation industry is responsible for approximately 2-3% of global carbon dioxide emissions and SAF has emerged as a crucial solution, identified by airlines, governments, and energy leaders, to decarbonise aviation, alongside fleet renewal with the latest-generation aircraft and improved operational practices. LanzaJet's ATJ technology is based on low-carbon ethanol, which serves as the foundation for producing SAF. This process results in a significant reduction of greenhouse gas emissions by over 70% compared to traditional fossil fuels. Additionally, LanzaJet's suite of carbon reduction technologies can further minimise emissions. The SAF produced using LanzaJet's ATJ technology is a certified drop-in fuel that seamlessly integrates with existing aircraft and infrastructure, ensuring compatibility and ease of implementation.

INDUSTRY PEOPLE



John S. Slattery

• Heart Aerospace, the Swedish electric airplane manufacturer, has appointed **John S. Slattery** as a non-executive chairman of its Board of Directors. Slattery, who currently serves as the Executive Vice President and Chief Commercial Officer at GE Aerospace, brings extensive industry expertise and a strong commitment to decarbonising air travel. In accepting the position, Slattery expressed his enthusiasm for joining Heart Aerospace during this pivotal moment for the aviation industry. He emphasised the importance of acting with vision, courage, curiosity, and a sense of urgency to achieve carbon neutrality, acknowledging the responsibility to future generations. Heart Aerospace focuses on a segment of the market that is primed for disruption. Its innovative ES-30 regional hybrid electric airplane not only contributes to the decarbonisation of commercial aviation but also democratises travel by reintroducing commercial flights to underserved communities and airports facing service cuts. He hailed the value proposition of Heart Aerospace's offering, highlighting its potential to benefit everyone, including the environment, and likening

it to a "blue ocean" strategy. Before joining GE Aerospace, a prominent provider of aircraft jet and turboprop engines and systems, Slattery served as the President & CEO of Embraer Commercial Aviation. Prior to that, he held various executive positions for fifteen years at leading commercial aerospace advisory firms, aircraft leasing companies, and aviation banking organizations.

• Farsound has restructured its senior team, strengthening it to support the next phase of global expansion. Farsound's business is growing rapidly and has recently moved into a new purpose-built state-of-the-art UK headquarters and has also recently opened new facilities in the U.S.A. and Spain. To support the continued rapid growth of the business, a number of changes have been made to the senior team; **Kevin Sargent** will move from Executive Chairman to Non-Executive Chairman and **Chris Knott** has been appointed as Chief Executive Officer for Farsound's global business. He was previously the Group Finance Director at Farsound for ten years, so brings a wealth of relevant experience to the role. Farsound continues to see strong global demand for its supply chain solutions as it continues to support the supply of fast-moving parts directly to the production lines of many of the world's leading aero engine MROs. Over the past few years Farsound's Group Sales Director, **Lee Kelsey** has expanded the international customer base and partnered with many of the world's flagship airlines. He has been appointed to a new role of Chief Operating Officer, overseeing sales, quality and global operations, ensuring total customer satisfaction and continuing the development of innovative products and services. **Jonathan Medhurst** is appointed as Chief Procurement Officer, responsible for Farsound's global inbound supply solutions and the continued development of supplier relationships. Given the current challenges in the global supply chain, this role is becoming increasingly important as Farsound continues to develop long-lasting mutually beneficial relationships with all of its suppliers. A new Chief Financial Officer will also be joining the team later in the summer, and an announcement will be made on this role in due course.

• Topcast, a prominent aircraft parts distributor and MRO service provider, has appointed **Wolfgang Tatzer** as its Chief Executive Officer. With over 30 years of experience in the aviation industry, Tatzer brings



Wolfgang Tatzer

a wealth of knowledge to the role. Previously, he served as the president of Telair International, a leading supplier of aerospace cargo loading solutions. Prior to that, he spent more than a decade at Sa-tair, where he oversaw product management teams responsible for major product lines in the aircraft system OEM portfolio, supporting global distribution contracts. The appointment of Tatzer comes during a period of notable growth for Topcast, spurred by the resurgence of air travel in Asia. Capitalising on the market recovery, the company has embarked on various new business initiatives and formed partnerships, including the revitalization of the APEC sales team, expanding business operations in the Americas and prioritising talent recruitment and retention.

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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
A320-200	ALTAVAIR	V2527-A5	6093	2014	May 2024	Lease	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493
A320-200	ALTAVAIR	V2527-A5	6098	2014	May 2024	Lease	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493
A320-233ceo	FPG Amentum	V2527E-A5	4457	2010	Now	Sale / Lease	Lei Ma	ma.lei@fpg-amentum.aero	+852 9199 1875
A330-200	Doric	Trent 772B-60	1310	2012	Q2/2024	Sale / Lease	Maurick Groeneveld	maurick.groeneveld@doric.com	+49 69 247559-931
A330-200 EFW	ALTAVAIR	Trent 772B-60			Now	Sale / Lease	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493
B737-800 SSF	GA Telesis		29884	2002	Now	Sale / Lease		aircraft@gatelesis.com	
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



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@ftaaviation.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	AeroDirect	Sean Miller	SMiller@aerodirect.com	+1.404.229.3723
(1) CFM56-7B27/3	Now - Lease				
(1) CFM56-5B4/P	Now - Sale/Lease/Exch.				
(1) CFM56-5B2/P	Now - Sale/Lease/Exch.				
(2) CFM56-5B5/P	Now - Sale / Lease				
(1) CFM56-5B4/P	Now - Sale / Lease	BBAM	Steve Zissis	info@bbam.com	+1 787 665 7040
(2) CFM56-5B6	Now - Sale / Lease				
(1) CFM56-5A3	Now - Sale				
(1) CFM56-7B24/3	Now - Lease				
(1) CFM56-7B26/3	Now - Lease				
(1) CFM56-7B26	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CFM56-7B27/B	Now - Lease				
(2) CFM56-5B3/3	Now - Lease				
(1) CFM56-5B4/3	Now - Lease				
(2) CFM56-5B4/3	Now - Sale / Lease				
		GA Telesis		engines@gatelesis.com	
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
(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
(4) LEAP-1B28	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) LEAP-1A26	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
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
(1) PW1521G-3	Now - Lease				
PW 2000 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) PW2040	Now - Sale	Pratt & Whitney CSA	Jim Obrzut	james.obrzut@prattwhitney.com	+1 (860) 280-7665
PW 4000 Engines	Sale / Lease	Company	Contact	Email	Phone
(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

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				
(2) 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
(2) 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
(1) V2533-A5	Now - Lease	FTAI Aviation LLC	Mark Napoles	mnapoles@ftaiaaviation.com	+1 786-785-0777
(1) 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) V2527-A5	Now - Lease				
(2) 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, (2) 737 LG-Shipset		GA Telesis		landinggearsales@gatelesis.com	
GTCP131-9A (2), GTCP131-9B(2)	Now - Lease	REVIMA APU	Olivier Hy	olivier.hy@revima-apu.com	+33(0)235563515
GTCP331-200, GTCP331-250	Now - Lease				
APS500C14(3), APS1000C12(2), APS2000	Now - Lease				
APS2300, APS3200(2), APS5000(2)	Now - Lease				
PW901A(4), PW901C(2)	Now - Sale / Lease				
TSCP700-4E	Now - Sale				
(1) 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
(1) GTCP331-350		GA Telesis	Jay Meshay	apu@gatelesis.com	+1-954-849-3509
(2) APS3200B, (1) APS3200C, (1) GTCP331-500 Engine stands: CF6-80C2, CFM56-3, CFM56-5A/B/C, PW4000			Ricky Torres	stands@gatelesis.com	+1-954-676-3111
(3) APU GTC131-9B Engine stands now available	Now - Sale / Lease Now - Lease	Willis Lease	Gavin Connolly	gconnolly@willislease.com	+44 1656 765 256
(2) PW901A, (1) PW901C(1), PW125B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368



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