

Weekly Aviation Headline News

WORLD NEWS

Finnair wins top title at APEX/IFSA Awards

Finnair has received top titles at this year's influential APEX/IFSA Awards for its elevated long-haul experience. The Nordic carrier was awarded the accolade for Best Cabin Innovation, for its new long-haul cabin design, surpassing designs from competitors. Finnair was also hailed as a 'Five Star' airline in this year's global ranking, in recognition of the airline's consistent commitment to improving the customer experience. This Five Star rating is individually certified by APEX, with over 1.2 million flights rated by passengers across over 600 airlines from around the world.

IAG Cargo delivers Q3 revenues of €373 million

IAG Cargo has reported its financial results for Q3 2022, with revenues of €373 million for the period from July 1 to September 30, 2022. The Q3 results take IAG Cargo's year-to-date revenue to €1,216m, up 3.6 per cent in comparison to YTD 2021. In Q3, the business continued to offer increased services across its network, with capacity between London-Heathrow, Madrid and the US more than doubling in the quarter (compared to Q3 2021). Overall, the business saw capacity increase by 35.9 per cent on Q3 2021, as measured in available tonne kilometres (ATKs).

GAMECO and Boeing redeliver first 767-300BCF

Boeing and GAMECO have celebrated the completion of China's first 767-300 Boeing Converted Freighter (BCF) from the GAMECO conversion line located in Guangzhou. With a recent ramp up in their production facilities, GAMECO currently has two passenger-to-freighter conversion lines for the 767-300BCF and three conversion lines for the 737-800BCF in operation. The first 767-300BCF line started in the second quarter of 2022 and the second line opened in September 2022. Boeing earlier also announced plans to add eight 737-800BCF conversion lines across new and existing MRO suppliers in China, and at other global sites.



IAG has confirmed an additional 37 A320neo aircraft.

Photo: Airbus

MROs scale up on engine capabilities

As new aircraft orders ramp up

Aircraft maintenance organisations (MROs) are increasingly adding capabilities to service new engine platforms. Iberia Maintenance is the latest MRO to obtain the capability to service Pratt & Whitney GTF engines. The announcement was made at MRO Europe in London recently. The Iberia Engine shop will be one of a select number of shops authorised worldwide to service the GTF PW1100G-JM engine, powering the Airbus A320neo family.

As the number of A320 neo deliveries ramp up, demand for support services and maintenance slots will increase. Airline group IAG is the latest operator to confirm additional orders for 37 aircraft last week- (17 A320neos, 5 A321neos). No doubt the order was carefully timed to coincide with the new GTF capabilities at Iberia Maintenance. The Spanish MRO has been working

on this project for more than two years, investing in the latest engine MRO technologies and will receive its first GTF engine in 2023.

Clearly, MROs have developed close ties with engine OEMs despite changes to the aftermarket landscape and these partnerships

are vital in providing cost effective MRO and aftermarket services for new engine types like the CFM LEAP and GTF, especially for the aircraft operator. New engines, by definition, are at the beginning of their operational life, so repairs naturally develop over time. However, as technologies are getting more complex and with protected IPs, strong relationships and cooperation with the OEMs will be es-

sential and as good as mandatory. It is not surprising that other MROs like AFI KLM E&M have built strong relationships with all major OEMs over a long period of time and no doubt that relationship has been a fundamental enabler to offer optimised support to aircraft operators.

Back at Iberia Maintenance, the MRO is looking to adapt to new market demands by scaling up capabilities. The GTF is a strategic step to expand its scope of activity and service to new generation engines that will be powering aircraft fleets during the coming decades, the MRO stated. Speaking in London, Marc Meredith, Executive Director of GTF Engine Aftermarket at Pratt & Whitney said: "Already a proven MRO provider for the V2500 engine, Iberia Maintenance's skill and experience will be a strong asset to the GTF MRO network."

“Already a proven MRO provider, Iberia Maintenance's skill and experience will be a strong asset to the GTF MRO network.”

Marc Meredith, GTF Engine Aftermarket at Pratt & Whitney

AIRCRAFT & ENGINE NEWS

Hawaiian Airlines to operate ten A330-300 freighters for Amazon

Hawaiian Holdings, the parent company of Hawaiian Airlines, Inc. (Hawaiian), has come to an agreement with Amazon.com and its subsidiaries to operate and maintain an initial fleet of ten Airbus A330-300 freighters starting in the fall of 2023. Hawaiian will maintain and fly Amazon's A330s under Hawaiian's FAA air carrier certificate to move cargo between airports near the online retailer's operations facilities. The initial ten aircraft will enter into service in 2023 and 2024. The agreement also contemplates the ability to expand the fleet depending on Amazon's future business needs. In preparation for service for Amazon, Hawaiian intends to establish a pilot base on the continental U.S., grow existing maintenance bases, and expand the hiring of pilots, mechanics, dispatchers, supply chain employees and others who will help support this new cargo operation. In connection with the commercial agreement, the company issued Amazon warrants to acquire up to 15% (post-issuance) of its common shares. The warrants are exercisable over the next nine years.

Alaska Airlines exercises options to purchase 52 Boeing 737 MAX aircraft with rights for additional 105 aircraft

Alaska Airlines is exercising options to purchase 52 Boeing 737 MAX aircraft for delivery between 2024 and 2027 growing the airline's confirmed 737 MAX fleet from 94 to 146. Alaska also secured rights for 105 more planes through 2030, ensuring access to sufficient aircraft for fleet replacement and growth. This agreement represents the largest commitment for future aircraft in the airline's history. This order positions Alaska's fleet as one of the most efficient, environmentally friendly and profitable fleets in the industry. The order includes 737-8, 737-9 and 737-10 aircraft, enabling Alaska to optimally match aircraft size and capability with market characteristics so Alaska will have full flexibility to shift between 737 MAX models as appropriate.

Lilium and SAUDIA plan to bring electric air mobility to Saudi Arabia



SAUDIA will be the first airline in the MENA region to invest in sustainable air mobility with plans to purchase 100 all-electric Lilium Jets
Photo: Lilium

At the sixth edition of the Future Investment Initiative (FII), SAUDIA, the national flag carrier of Saudi Arabia and Lilium N.V. (Lilium), developer of the all-electric vertical take-off and landing (eVTOL) jet announced the signing of a Memorandum of Understanding (MoU) for the proposed development and operation by SAUDIA of an eVTOL network across Saudi Arabia. The proposed arrangement will make SAUDIA the first airline in the MENA region to purchase Lilium Jets alongside yearly support services. With zero operating emissions, the Lilium Jet will enable sustainable and time-saving travel. SAUDIA intends to launch a state-of-the-art service with the purchase of the 100 Lilium Jets including new electric point-to-point connections as well as seamless feeder connections to SAUDIA's hubs for business-class guests. Lilium Jet's flexible cabin architecture is expected to provide a range of spacious interior configurations that will be well suited to the needs of the premium market, which Lilium believes can help drive the early adoption of eVTOL aircraft required to scale. SAUDIA also expects to support Lilium with the necessary regulatory approval processes in Saudi Arabia for certification of the Lilium Jet and any other required regulatory approvals. As the national flag carrier of Saudi Arabia, SAUDIA currently serves a network of more than 100 domestic and international destinations. Lilium and SAUDIA plan to combine SAUDIA's unrivalled market knowledge and Lilium's unique eVTOL aircraft to transform the Kingdom's domestic air transport sector.

Boeing forecasts Latin America and Caribbean fleet to nearly double over next 20 years

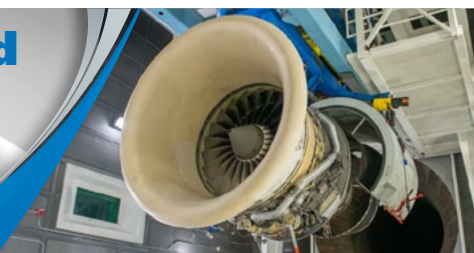
With Latin American air travel outpacing the industry's global recovery, the region's commercial fleet is projected to grow by more than 85% over the next 20 years, fuelled by the strength of domestic and intra-regional travel, Boeing released in its 2022 Commercial Market Outlook (CMO). The region is well-positioned for healthy recovery beyond near-term market disruptions. According to Boeing's 2022 CMO, the Latin American and Caribbean region will need 2,240 new airplanes by 2041. The CMO, an annual projection for commercial airplanes and services, forecasts that more than 2,000 single-aisle deliveries will more than double the current fleet to serve popular leisure routes between North America, Mexico

and the Caribbean, while also expanding intra-regional networks. As the fleet grows, demand for commercial aviation services will grow as well, reaching US\$165 billion in value over the forecast period. More than half of new airplane deliveries will accommodate growth in commercial aviation across the continent, with the remaining orders replacing older airplanes with more fuel-efficient models such as the 737 MAX, 787 Dreamliner and 777X, according to Boeing. In the past decade, Latin American carriers have opened more than 200 city pairs across the region, a foundation for future single-aisle demand that will account for over 90% of deliveries. Fleet renewal is a key component of Boeing's strategy to decarbonise aerospace. New airplanes provide significant efficiency gains — each generation reduces fuel use and emissions 15-25%.

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AIRCRAFT & ENGINE NEWS

Textron Aviation enters into purchase agreement with Fly Alliance for up to 20 Cessna Citation jets



Cessna Citation XLS Gen2 jet

Photo: Textron Aviation

During the National Business Aviation Association's Business Aviation Convention & Exhibition (NBAA-BACE) Textron Aviation has entered into a purchase agreement with Fly Alliance for up to 20 Cessna Citation business jets, four firm with options for 16 additional aircraft. Fly Alliance will use the aircraft for its luxury private jet charter operations and expects to take delivery of the first aircraft, an XLS Gen2, in 2023. Fly Alliance, headquartered in Orlando, Florida, offers jet card and on-demand Part 135 charter services as well as maintenance, parts, sales and acquisitions. Fly Alliance's fleet of managed and charter aircraft are based in Orlando, Stuart, Palm Beach and Miami, Florida, as well as Providence, Rhode Island. The company's fleet includes six Hawker 800XP aircraft. This will be its first Citation. "The Fly Alliance acquisition of up to 20 brand-new aircraft from Textron Aviation expands our product offering to our members and customers," said Kevin Wargo, CEO of Alliance Aviation Group. "This is an excellent path to building our fleet size to 100 aircraft in the years to come."

Air Côte d'Ivoire expands fleet and network with order for two new modern Airbus A330neo aircraft

Air Côte d'Ivoire, the national airline of the Republic of Côte d'Ivoire, has signed a firm order for two A330neo aircraft to support its growth strategy. The agreement was announced at Airbus headquarters in Toulouse. The airline currently operates a fleet of six Airbus aircraft comprising one A320neo, two A320XLRs and three A319s. The new A330neo wide-body aircraft will enable Air Côte d'Ivoire to grow its network and efficiently launch long-haul routes in view of the airline's transcontinental expansion strategy.



Contract signing between Air Côte d'Ivoire and Airbus

Photo: Airbus

AIRCRAFT & ENGINE NEWS

Aergo Capital delivers two further B737-8 aircraft to Batik Air Malaysia

Aergo Capital Limited (Aergo) has delivered two further B737-8 aircraft to Batik Air Malaysia (Malindo Air). The aircraft, bearing manufacturer serial numbers 43010 and 43014, are the sixth and seventh of eight aircraft to be delivered to the Lion Air Group. Aergo Capital secured a loan facility from PK AirFinance, an aviation lending affiliate of Apollo, to assist in the financing and acquisition of these two aircraft.



Batik Air Malaysia Boeing 737-8 aircraft

Photo: Aergo Capital

Air Canada to acquire 15 additional Canadian-built Airbus A220-300 aircraft



Photo: Air Canada A220-300 aircraft

Air Canada has converted options for 15 Airbus A220-300 aircraft into firm orders, bringing to 60 the total number of the Canadian-built aircraft it will acquire for its fleet. "This expanded order for the A220, built up the road from our Montreal headquarters, is an important development in the modernisation of our fleet and a clear indication that we are emerging from the pandemic solidly positioned for the future. The A220 has become a mainstay of our narrow-body fleet and its performance and passenger comfort are enabling us to compete effectively in the North American market," said Michael Rousseau, President and Chief Executive of Air Canada. "We are also proud to support the Canadian aerospace industry. This increased order will support jobs at Airbus' Mirabel factory and affirms Air Canada's positive economic impact in Montreal, Quebec and throughout Canada." Air Canada placed its initial order for the A220, then known as the Bombardier C Series, in 2016, with a firm order for 45 aircraft and 30 options. The first A220 entered service for Air Canada in January 2020 and the airline currently operates a fleet of 31 A220s, with two more deliveries expected in 2022. Six more will be delivered in each of 2024 and 2025, with the 15 additional aircraft scheduled for delivery in 2026. All of Air Canada's A220s are built in Mirabel.

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MRO & PRODUCTION NEWS

Honeywell appoints Turkish Technic authorised service centre for 131-9A APUs

Honeywell has appointed Turkish Technic, a maintenance, repair and overhaul organisation, to be an authorised Honeywell service centre for the 131-9A auxiliary power units (APUs) installed on the Airbus A320 aircraft series. Turkish Technic is already a Honeywell channel partner with repair capabilities on 131-9 APUs on Boeing 737s and will be able to utilise its expertise for Airbus aircraft. Under the terms of the agreement, Turkish Technic will provide inspection, repair, overhaul and upgrades for 131-9A and 131-9B APU models. Owners and operators of these aircraft will be able to repair their APUs locally in Türkiye instead of sending them to facilities outside the region.

IATA confirms Turkish Technic to join its MRO SmartHub platform

The Geneva-based International Air Transport Association (IATA) has confirmed that Turkish Technic, a provider of maintenance, repair, and overhaul (MRO) services for commercial aircraft and business jets is to join its MRO SmartHub platform which was developed in conjunction with technology partner Opremic. IATA's MRO SmartHub is a neutral web-based platform which allows airlines, MRO providers, OEMs, and appraisers to obtain greater transparency into the surplus aftermarket, plus real-time access to fair market values (FMV) for aircraft parts. Consequently, airlines and MRO service providers should be able to reduce their material costs by between 10-15% through using the platform. With steadily growing aircraft fleets, the MRO aftermarket material spend in 2020 was around US\$26 billion (£23 billion), representing an increasing component of airlines' operating costs. MRO SmartHub

AIRCRAFT & ENGINE NEWS

UMILES Next and TECNALIA successfully complete second test flight on eVTOL prototype Concept Integrity



Photo: UMILES Next and TECNALIA eVTOL aircraft at ATLAS test flight centre in Villacarrillo, Jaén, Spain

The electric vertical take-off and landing (eVTOL) aircraft designed by UMILES Next, Concept Integrity, equipped with FlyFree technology developed by research partner TECNALIA, took to the skies successfully over Jaén, Spain on October 26. Following its recent flight in Toulouse, this was the first free flight completed by the aircraft in Spain, as part of USPACE4UAM, a European demonstration project intended to safely integrate mixed operations, including manned and unmanned vehicles, into urban settings. The test flights took place at the ATLAS Test

Flight Centre in Villacarrillo, Jaén, which undertakes testing of unmanned aviation technologies and systems and light and tactical remotely piloted systems. These flights allow UMILES Next and TECNALIA to run further tests on their eVTOL prototype, paving the way for the future integration of the air taxi into urban airspace. This is a significant milestone towards the integration of these aircraft into urban airspace, as defined by the European USPACE4UAM project, which seeks to test and demonstrate effective management of urban air traffic featuring unmanned aircraft. The Concept Integrity was flanked at the testing event by other unmanned aircraft at different layers with a view to proving that this new traffic type can be safely and seamlessly integrated into urban areas in the near future. The companies participating in the USPACE4UAM project include HONEYWELL, the project leader, Vertical Aerospace, CATEC and ENAIRE. The mobility of the future will be smarter and more sustainable than ever before. New systems and developments will deliver alternative transport solutions in increasingly busy cities. UMILES Next and TECNALIA are working tirelessly to deliver urban air and ground mobility solutions which are set to become real transport options by 2028. This was the first time the Concept Integrity prototype has flown in open air space in Spain and the aircraft's second free flight, after it took successfully to the skies of Toulouse back in September as part of an initiative by the TindAIR consortium, which rolls out large-scale urban air mobility test flights to test and demonstrate effective management of air traffic using unmanned aircraft in urban settings. The air taxi's next stop for further testing is Lugo.

provides airlines and MRO facilities, like Turkish Technic, the ability to manage their inventory and aftermarket spare part costs. Incorporated in 2006 Turkish Technic has three hangars for

narrow-body and wide-body aircraft and a VIP & light airplanes hangar at Istanbul Airport, in a total enclosed area of 130,000 m2 with a workforce of 3,000 employees, of whom

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MRO & PRODUCTION NEWS

roughly 1,800 are technicians and around 1,300 of them are licensed (LAE – Licensed Aircraft Engineers). Newly constructed facilities at Sabiha Gökçen International Airport include a hangar for 11 single-aisle aircraft plus an additional hangar for three long-haul airframes. A separate narrow-body hangar can be found at Esenboğa International Airport (ESB), Ankara. Turkish Technic is also a member of IATP (International Airlines Technical Pool), ELMO (European Line Maintenance Organization), and Airbus MRO Network.

FINANCIAL NEWS

Avolon reports third-quarter net income of US\$141 million

Avolon, the international aircraft leasing company, has posted results for the third quarter of 2022. The company reported net income for the three months to September 30, 2022, of US\$141 million and US\$227 million for the nine months to September 30, 2022 (excluding the impact of Russia). Avolon recognised US\$546 million of lease revenue and generated US\$278 million of net cash from operating activities in the quarter. The company ended the quarter with total available liquidity and contracted sales of approximately US\$6.8 billion, including US\$5.7 billion of undrawn debt facilities and with US\$16 billion of unencumbered assets and net leverage of 2.3x. During the quarter Avolon agreed on a landmark transaction with Malaysia Airlines for the financing of 20 A330-900neo aircraft valued at over US\$2 billion. The company upsized its unsecured revolving credit facility by US\$0.2 billion bringing the total facility size to US\$4.6 billion and executed a US\$0.7 billion term financing facility maturing 2029. (£1.00 = US\$1.16 at time of publication).

AIRCRAFT & ENGINE NEWS

Amazon Air to get its first Airbus jets with ten A330-300s on lease from Altavair

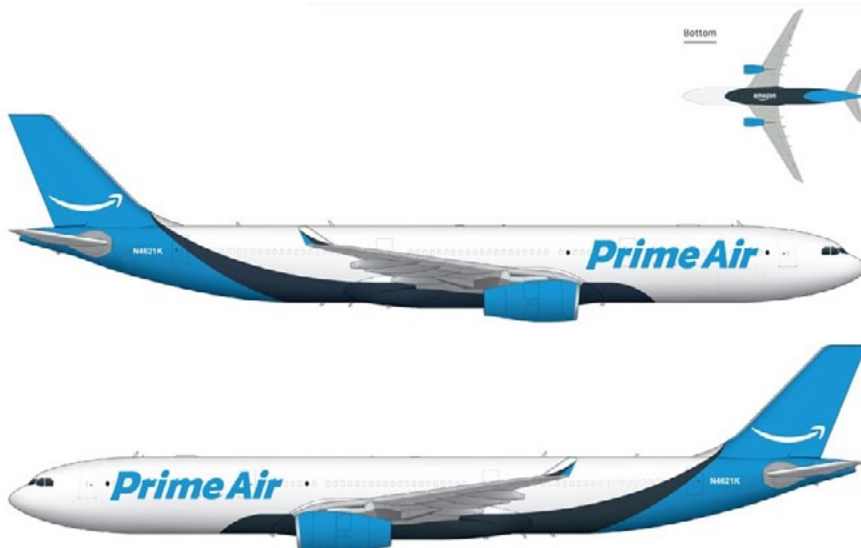


Photo: Airbus

Altavair L.P. (Altavair), an asset manager focusing on the acquisition of new and used commercial aircraft for leasing to domestic and international passenger airlines and cargo operators, has announced that it has entered into a definitive agreement with Amazon Air for the lease of ten Airbus A330-300 jets. The aircraft are due to commence delivery in late 2023 after conversion to freighter operations at Elbe Flugzeugwerke GmbH, a joint venture between ST Engineering Aerospace and Airbus. The aircraft are owned by funds and accounts managed by KKR, with Altavair acting as lease servicer. These aircraft represent the first Airbus aircraft to be operated by Amazon Air since the cargo operator's inception in 2015, operating as Amazon Prime Air. Up until now the fleet of the online retailer's subsidiary has been comprised of predominantly Boeing freighter-converted jets including 26 737-800s, 12 767-200s and 54 767-300ERs. Amazon Air also operates five ATR 72-500F twin-engine turboprop aircraft. Amazon Air is responsible for transporting packages solely for its parent company Amazon and has hubs at Cincinnati / Northern Kentucky International airport, Fort Worth Alliance Airport, and San Bernardino Airport all in the U.S.A., and Leipzig / Halle Airport in Germany.



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FINANCIAL NEWS

Spirit posts third-quarter net loss of US\$36.4 million

For the third quarter 2022, Spirit Airlines (Spirit) has reported a net loss of US\$36.4 million. Excluding special items, adjusted net income for the third quarter 2022 was US\$3.6 million.

For the third quarter 2022, Spirit reported a pre-tax loss of US\$48.9 million and a pre-tax margin of negative 3.6%. Adjusted pre-tax loss for the third quarter was US\$1.2 million and adjusted pre-tax margin was negative 0.1%. The company cancelled approximately 550 flights and 400 flights in September and October, respectively, related to Hurricane Ian. The company estimates the decrease in operating income attributable to the direct impact from the hurricane was approximately US\$5 million in the third quarter and will be approximately US\$5 million in the fourth quarter 2022. In addition, the Spirit saw some softness in bookings to Florida destinations as well as to Myrtle Beach in early October immediately following the hurricane and estimates this will negatively impact fourth quarter 2022 revenue by an additional US\$3 million to US\$5 million. Total operating revenues for the third quarter 2022 were US\$1.3 billion, an increase of 35.4% compared to the third quarter 2019 primarily due to increased flight volume and higher operating yields. Total revenue per ASM (TRASM) was 11.07 cents, up 19.3% compared to third quarter 2019 on 13.5% more capacity. (£1.00 = US\$1.16 at time of publication).

Airbus posts nine-month 2022 results

Airbus has posted its consolidated financial results for the nine months ended 30 September 2022. Consolidated revenues increased to €38.1 billion (9m 2021: €35.2 billion). A total of 437 commercial aircraft were delivered (9m 2021: 424 aircraft), comprising 34 A220s, 340 A320 family, 21 A330s and 42 A350s. Revenues generated by Airbus' commercial aircraft activities increased 8% year-on-year, mainly reflecting the higher number of deliveries including a favourable mix and the strengthening of the US dollar. Airbus

AIRCRAFT & ENGINE NEWS

Ampaire and MONTE sign deal for up to 50 Cessna Eco Caravans



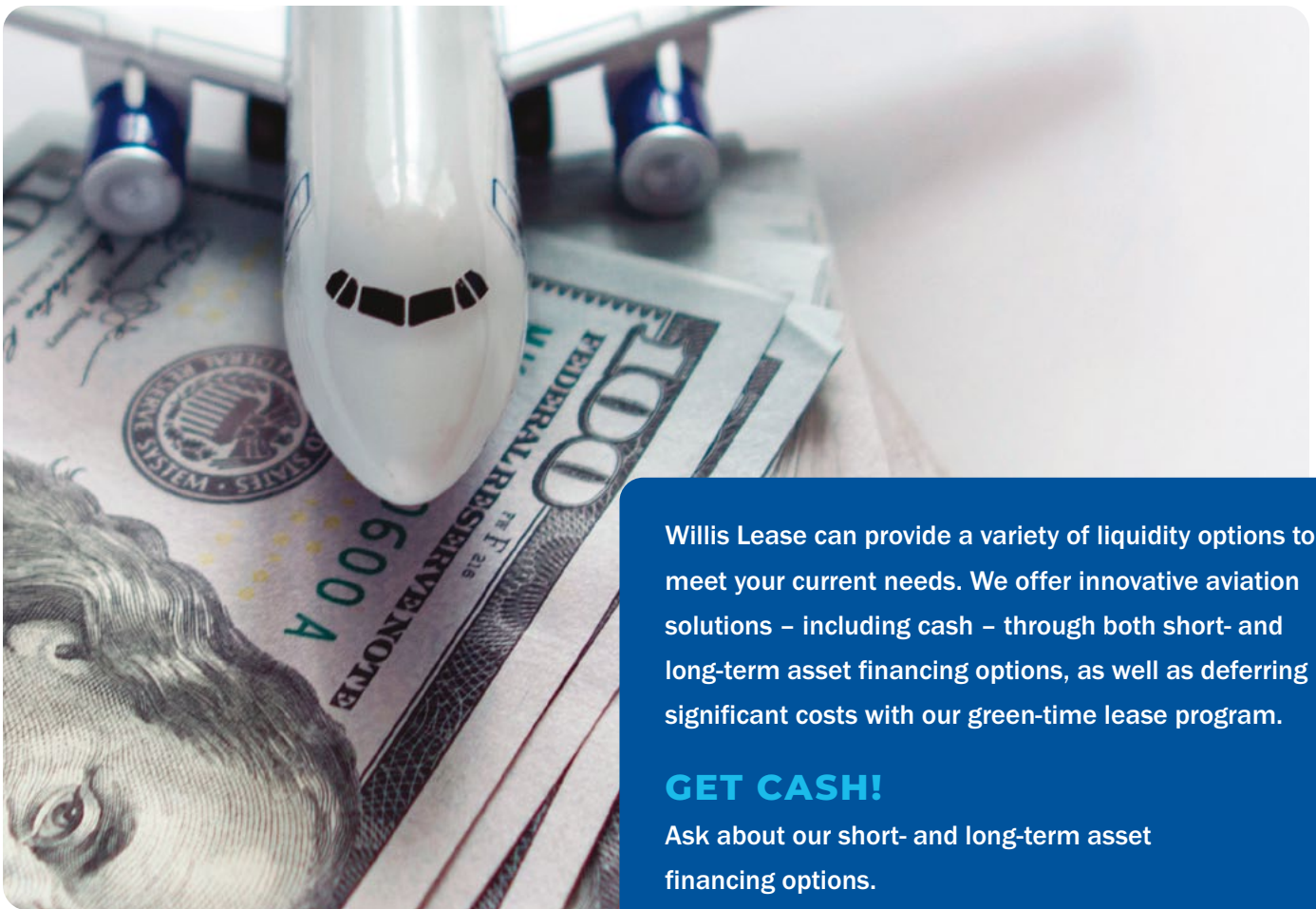
Photo: Ampaire

MONTE, a financier of sustainable regional aviation technologies, has placed a firm order for 25 hybrid-electric Cessna Eco Caravan aircraft with Ampaire, with an option for a further 25 of the aircraft included in the deal. Established in 2016, Los Angeles-based Ampaire is involved in upgrading and converting existing passenger aircraft to hybrid-electric power. The Eco Caravan is a hybrid-electric upgrade of the Cessna Grand Caravan. The Eco Caravan is capable of reducing fuel and emissions by as much as 70% on shorter trips and up to 50% on longer trips, while maintaining the same payload capability and extending the aircraft's range. When flown on sustainable aviation fuel (SAF), the Eco Caravan effectively becomes carbon neutral. In comparison, the Eco Caravan's operating cost is 25 to 40 percent below that of the Cessna Grand Caravan, though this does depend on the type of mission flown. The aircraft can recharge its batteries in flight, thus enabling it to use any airport that Cessna Caravans currently fly to and from, irrespective of ground charging capability. The nine-passenger Eco Caravan is presently undergoing ground power tests and will fly later this year. It is the first hybrid-electric aircraft to enter the certification process with the FAA. A supplemental type certification for the upgraded aircraft is expected in 2024. It will therefore offer the earliest opportunity for regional carriers to fly in the most sustainable way possible. MONTE focuses solely on providing financing and leasing solutions for low- and zero-emission technologies to regional aircraft operators. The company's goal is to become the first carbon-neutral aircraft leasing company in the world by 2027.

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FINANCIAL NEWS

Helicopters delivered 193 units (9m 2021: 194 units), with revenues rising by 9% mainly reflecting growth in services and a favourable mix in programmes. Revenues at Airbus Defence and Space increased 10%, mainly driven by the Military Aircraft business and the Eurodrone contract signature. Seven A400M airlifters were delivered in 9m 2022. Consolidated EBIT Adjusted increased slightly to €3,481 million (9m 2021: €3,369 million). EBIT Adjusted related to Airbus' commercial aircraft activities increased to €2,875 million (9m 2021: €2,739 million). It included the non-recurring positive impact from retirement obligations recorded in Q1, partly offset by the impact from international sanctions against Russia. It also reflects a less favourable hedge rate compared to 9m 2021. Gross commercial aircraft orders increased to 856 (9m 2021: 270 aircraft) with net orders of 647 aircraft after cancellations (9m 2021: 133 aircraft). The order backlog amounted to 7,294 commercial aircraft at the end of September 2022. Airbus Helicopters registered 246 net orders (9m 2021: 185 units), with bookings well spread across programmes. Airbus Defence and Space's order intake by value was €8.0 billion (9m 2021: €10.1 billion), corresponding to a book-to-bill ratio slightly above 1. Third quarter 2022 order intake mainly related to services across the division's portfolio. (£1.00 = €1.16 at time of publication).

Boeing stock unmoved despite shock multi-billion-dollar quarterly loss

In contrast to predictions of a US\$347 million profit for the third quarter of the year by analysts surveyed by Refinitiv, Boeing Co. has posted a quarterly loss of US\$3.3 billion, appreciably worse than the US\$132 million it posted for the same quarter last year. The news has come as even more of a surprise as the company had posted a profit in the second quarter with a net income of US\$160 million. Boeing has been quick to point to massive hits it has taken in the Air Force One contract and also the Starliner programme. Boeing has already admitted that the contract to refurbish two 747 jets that will become the next generation of Air Force One has been a mistake. The fixed-price contract set at US\$3.9 billion has seen Boeing already take a US\$660 million charge for losses on the planes in the first quarter of this year. In addition, the jets are well behind schedule and have now been slated for delivery in four years' time. To compound Boeing's woes, its Starliner programme to build capsules which will carry astronauts to the International Space Station has also added to the US\$3.3 billion loss, though Boeing have not revealed how much of the defence and space unit's US\$2.8 billion operating loss was attributable to the

MRO & PRODUCTION NEWS

OGMA receives certification from Portuguese aeronautical authority (ANAC)



Photo: OGMA

OGMA, an Embraer's Group company, has reached a historic milestone by becoming the first authorized maintenance centre certified by the Portuguese aeronautical authority (Autoridade Nacional da Aviação Civil – ANAC) to carry out commercial aircraft heavy maintenance for the E-Jets E2 family of commercial aircraft in Europe, Middle East and Africa (EMEA). The announcement was made during the global Embraer Operators Conference (EOC), which is being held in Lisbon. Therefore, OGMA expands its business operations in the commercial aviation segment. With this certification, OGMA is prepared to carry out heavy maintenance, total fleet management, engineering solutions, airworthiness management, support maintenance, and future aircraft modifications that meet customer requirements and retrofit the family's aircraft of E-Jets E2. In addition, OGMA has just signed a contract with the Norwegian airline Widerøe to carry out the first maintenance of an E2 aircraft. "We are delighted to reach such an important milestone, which results from the tireless work of a great team. Being the first Embraer authorized maintenance centre for the E2 in the EMEA region is an important credential for OGMA in such a competitive and demanding sector as the international aviation market. This is just the starting point of an important cycle for the company's growth, with more business, new customers and opportunities," said Alexandre Solis, CEO of OGMA.

FL Technics wheels and brakes team secures new contract with Wizz Air



FL Technics will provide wheels and brakes solutions for Wizz Air

Photo: FL Technics

FL Technics and Wizz Air have signed an agreement for wheels and brakes solutions to be provided over the course of five years. Starting from October, FL Technics will be providing wheels and brakes services for the carriers ever-expanding fleet of Airbus A320-family aircraft. A full scope of services is set up, including repair and overhaul, storage and supply chain, as well as management solutions. Such an integrated approach allows FL Technics to maximise the efficiency of services and, moreover, significantly contribute to the airline's effort in reducing impact on the environment, both by faster turn-around-times and lower flight ranges necessary between maintenance visits. FL Technics wheels and brakes solutions is the latest addition to the already extensive portfolio of partnerships between the two companies, as Wizz Air leverages capacity and capabilities of the independent global MRO network operated by FL Technics.

FINANCIAL NEWS

programme. The long-delayed project has now been further delayed and in August the company pushed back the first crewed flight until early next year. Despite the commercial jets business delivering 112 planes in the quarter and revenue increasing by 4% to US\$16 billion, the division still managed to post an operating loss of US\$643 million for the quarter. (£1.00 = US\$1.16 at time of publication).

OTHER NEWS

Airbus' HAPS Connectivity Business has signed a strategic partnership with **Salam**, a Saudi telecommunications and ICT company and part of the **Mawarid Media & Communications Group** (MMCG), to progress the development of private networks, IoT applications, disaster management solutions and other connectivity and high-altitude earth observation services from the stratosphere to serve the Kingdom of Saudi Arabia. Ahmad Al-Anqari, Salam CEO, said: "We see in Airbus' Zephyr platform a key asset to provide private network services, IoT solutions as well as civil, governmental and non-governmental applications. There are numerous use cases for the platform's capabilities, and we look forward to this partnership with Airbus to serve the Saudi market in support of the Kingdom's Vision 2030 goals."

American Airlines (American) and the **Aviation Institute of Maintenance** (AIM) have announced a new partnership that provides aspiring aviation maintenance technicians (AMTs) with a direct career path to American. The memorandum of understanding guarantees top candidates from AIM's Chicago campus with interviews at American, provides ongoing engagement with American's team of aviation maintenance professionals and offers access to American's maintenance facilities. Eligible students will also be offered financial assistance for certification exams and toolboxes to start their career off on the right foot. About 4,000 students are currently pursuing certifications to become aircraft mechanics within AIM's 21-month programme. With 14 FAA-certificated aviation maintenance schools around the country, AIM is the largest aviation maintenance training organisation in the United States. "We are thrilled to be extending our relationship with American Airlines and providing a direct pathway to employment for our students," said Joel English, Executive Vice President for AIM. "Our goal is to be an agent of personal and professional transition for our students, as well as a solution for the workforce needs of the airlines and aircraft manufacturers. This direct relationship with American Airlines

MRO & PRODUCTION NEWS

Joramco signs new maintenance agreements with flyadeal and euroAtlantic Airways



Photo: Joramco

Amman-based MRO provider Joramco, the engineering arm of Dubai Aerospace Enterprise (DAE), has signed its first maintenance agreement with euroAtlantic Airways. The new agreement stipulates that Joramco will perform heavy checks, painting, and placard installation on two Boeing 777s from the euroAtlantic Airways fleet. Furthermore, the company has entered into a new agreement with flyadeal, based in Jeddah. Under this agreement, Joramco will perform major structural repairs on aircraft from flyadeal's A320neo fleet, which will include central and lateral panels, frame 1, bulkhead, and aircraft painting.

AES awarded EASA STC installation of forward cabin closets for Boeing 737 NG aircraft



B737NG forward underbin closet Photo: AES

Aerospace design and engineering specialist, Aerospace Engineering Solutions, has received the Supplemental Type Certificate (STC) for the installation of forward cabin closets.

Recently issued by EASA, this latest STC (No. 10079922) applies to the Boeing B737-800 family. Developed in conjunction with Causeway Aero in Northern Ireland, this modification installs seat track mounted underbin coat stowages to the forward left- and right-hand cabin area of the aircraft. Targeted for operators with limited stowage accommodation, each 12.5" unit features twin coat stowage rails behind an inboard opening door while décor is a standard Isovolta 70F1 type customised to suit. Through the company's Design Organisation Approval (DOA), the closet units are delivered with UK CAA Form 1 approval.

OTHER NEWS

is a significant step forward for us and a great opportunity for our students.”

Spirit Airlines and **CAE** have announced the launch of the Spirit Wings Pilot Pathway programme that aims to expand the carrier’s pipeline of highly skilled, professional pilots. The programme, located at CAE’s flight academy in Phoenix, Arizona, will put graduates on the fast track to a successful career as a Spirit pilot. Spirit Wings Pilot Pathway is designed to mentor future Spirit First Officers as they progress through their path to the flight deck. Candidates may apply for the programme upon successful completion of their flight training at CAE Phoenix Aviation Academy and achieving approximately 500 hours of total flight time. If successful in Spirit’s interview process, they will receive a Conditional Offer of Employment (COE), a Spirit Electronic Flight Bag (EFB) and will be mentored as they work toward completing the minimum hours required for an ATP certificate. “This new programme will ensure Spirit Airlines has a pipeline of qualified pilots as it expands its fleet and route network,” said Nick Leontidis, CAE’s Group President, Civil Aviation. “CAE and Spirit Airlines share an unwavering commitment to safety and the Spirit Wings Pilot Pathway will give cadets an immersive training experience that will equip them with the skills and confidence to begin a successful career flying with Spirit Airlines.” Spirit is expanding rapidly with new stations starting operations across the United States, Latin America and the Caribbean. Spirit also plans to accept 24 brand-new planes in 2022, bringing its fleet total to 197 aircraft, and 33 more new planes are planned for delivery in 2023. The airline’s growth provides First Officers with opportunities to quickly upgrade to Captain and fly some of the newest aircraft in the industry. Spirit’s Pilots also receive great training and enjoy some of the best quality of life for themselves and their families.

IBA, the leading aviation market intelligence and consultancy company, has today published its monthly **Aviation Industry Barometer** for September 2022, showing that Latin America is leading the global recovery, having surpassed pre-pandemic capacity levels since May this year, with flight capacity for September exceeding 2019 levels by 2%. Intelligence from IBA Insight reveals, however, that the recovery in monthly global passenger flights fell back by 2% in September, with flight capacity down to 81% relative to pre-pandemic levels. IBA’s Aviation Industry Barometer for September indicates that overall, there were approximately 2.42 million commercial passenger flights in the month, compared to 2.64 million in August, while 2.07

FINANCIAL NEWS

Fraport and Lufthansa establish joint venture

Fraport and Lufthansa have formed a new joint venture called “FraAlliance”. Each company holds a 50% share in the new venture. The two companies intend to use FraAlliance to strengthen their existing cooperation on strategic and operational matters at Frankfurt Airport and thus, plan to deepen their long-standing partnership in relation to enhancing services at Frankfurt Airport’s Terminal 1. The aim is to improve the quality of products and services at Frankfurt Airport with the joint venture seeking to improve aspects relating to business development and operations, customer experience, infrastructure, intermodally, and sustainability. Improvements are to be achieved by analysing and optimizing processes in terminal operations, as well as by taking a joint, customer-focused approach to product development. The goal is to bring about a journey-wide enhancement of processes and product offerings for flights, while boosting the competitiveness of the airport. One initial outcome of the enhanced partnership is the availability of real-time updates for aviation security checkpoints in the Lufthansa App. This allows Lufthansa passengers to see checkpoint waiting times in Frankfurt via the app, enabling them to take these times into account when planning their schedule and travel arrangements.



Photo: Fraport

MILITARY AND DEFENCE

Boeing delivers first upgraded AH-64E Apache to Royal Netherlands Air Force



The first upgraded AH-64E Apache helicopter has been delivered to the Royal Netherlands Air Force
Photo: Boeing

Boeing has delivered the first AH-64E Version 6, or v6, Apache helicopter featuring improved performance, sensors and software to the Royal Netherlands Air Force (RNLAf). As part of a Foreign Military Sale through the U.S. Department of Defense, Boeing received a contract in 2019 to remanufacture 28 RNLAf AH-64 D-model Apaches to the advanced AH-64E v6. Delivery for the final E-model Apache to the country is targeted for 2025. The Dutch have operated D-model Apaches since 1998. Deliveries of remanufactured E-model Apaches represents the next step in the long-term partnership between Boeing and the country. Apaches continue to be an important element of European defence and are currently operated by several European allied nations.

OTHER NEWS

million flights were recorded in September 2021. Latin America is leading the global recovery surpassing pre-pandemic capacity levels since May this year, with flight capacity for September exceeding 2019 levels by 2%. The recovery in Asia Pacific flight capacity took a hit during September due to another COVID outbreak across China, with capacity levels at a -35% variance to 2019 levels. There were 113 commercial aircraft deliveries in September, representing a month-on-month increase of 52% compared to August, and a year-on-year gain of 33% compared to September 2021. Freight deliveries remain exclusive to Boeing, with four aircraft delivered in September – two 777Fs and two 767-300F aircraft, going to a mixture of operators.

Air cargo prices and tonnages have stabilized in the past two weeks after dropping sharply in early October, but there are still no signs of a significant fourth quarter (Q4) peak season, the latest figures from **WorldACD Market Data** reveal. In week 42 (October 17 – 23), worldwide chargeable weight decreased slightly (-1%) after recovering +3% the previous week, following an -8% drop in the first full week of October. Comparing weeks 41 and 42 with the preceding two weeks (2Wo2W), tonnages were -2% below their level in weeks 39 and 40, while average worldwide rates were stable, in a flat capacity environment – based on the more than 350,000 weekly transactions covered by WorldACD's data. Across that two-week period, tonnages from all the main global origin regions decreased, except for outbound Asia Pacific, which saw a slight

MILITARY AND DEFENCE

Embraer signs MoUs for cooperation with aerospace industry in South Korea



C-390 Millennium aircraft

Photo: Embraer

Embraer has signed several Memorandums of Understanding (MoUs) with the aerospace companies ASTG (Aerospace Technology of Global), EMK (EM Korea Co.) and Kencoa Aerospace, from South Korea with the objective of strengthening collaboration with Korean defence industry partners for the future supply of parts for the C-390 Millennium aircraft. The C-390 Millennium aircraft is competing in the Large Transport Aircraft (LTA) II Program being run by the Defence Acquisition Program Administration (DAPA). The potential supply of South Korean manufactured parts will contribute to the offset requirements of the LTA II Program. The MoUs intend to create long-term business relationships between the parties which will endure for the LTA II Program and beyond. Local industry capabilities can also be part of future developments within Embraer's existing platforms such as the C-390 Millennium as well as new aircraft, vehicles, and systems. The C-390 Millennium and its aerial refuelling configuration, the KC-390, are the new generation of multi-mission military transport delivering unrivalled mobility and cargo capacity, rapid re-configuration, high availability, enhanced comfort, as well as optimal management of reduced operational costs throughout its lifecycle, all on a single platform.

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OTHER NEWS

recovery (+2%). That may reflect a bounce-back from China's Golden Week holiday in the first week of October, plus the reopening of some markets – including Hong Kong – following recent COVID restrictions. On a lane-by-lane basis, tonnages between North America and Europe dropped -4% in both directions, while an increase was recorded from Asia Pacific to, respectively, North America (+3%) and Europe (+2%). Europe-Africa recorded the biggest drop in tonnages, declining -8% southbound and -6% northbound. Meanwhile, traffic from the Middle East & South Asia to Asia Pacific recorded both the highest increase in tonnages (+7%) and the greatest drop in prices (-13%). That lane has seen an influx of capacity since Russia's invasion of Ukraine began in February, with the closure of Russian airspace to many airlines leading to some Asia-Europe cargo and services routed instead via the Middle East. On the pricing side, average rates stabilized for each of the main origin regions except for the Middle East & South Asia (-5%). On a lane-by-lane basis, most of the other main trades saw relatively flat pricing, exceptions being a strong increase from North America to Asia Pacific (+7%) and a steep drop in intra-Asia Pacific rates (-10%), on a 2Wo2W basis.

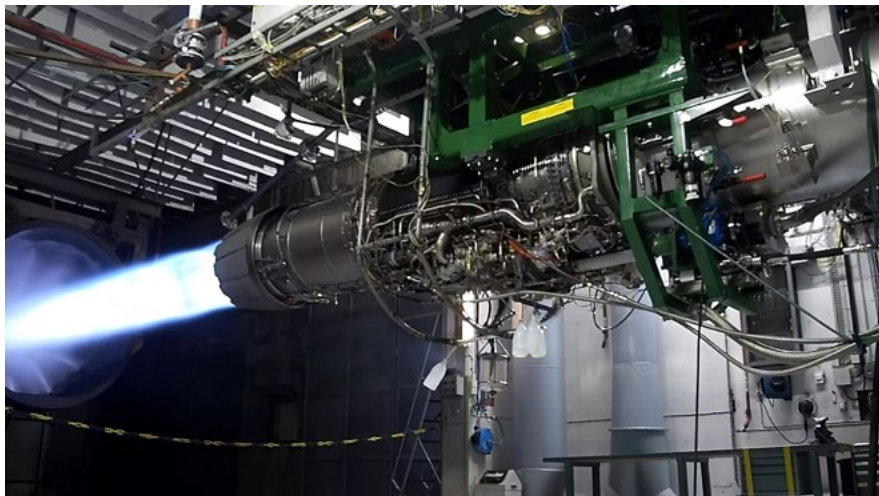
Year-on-Year perspective

Comparing the overall global market with this time last year, chargeable weight in weeks 41 and 42 was down -16% compared with the equivalent period in 2021, despite a capacity increase of +4%. Notably, tonnages ex-Asia Pacific are -23% below their strong levels this time last year, and Middle East & South Asia origin tonnages are -22% below last year. Capacity from all of the main origin regions, with the exception of Asia Pacific (-8%) and Central & South America (-5%), is significantly above its levels this time last year, including a double-digit percentage rise from Africa (+13%), and outbound Europe and North America (both +9%). Worldwide rates are currently -17% below their level this time last year at an average of US\$3.36 per kilo, despite the effects of higher fuel surcharges, but significantly above pre-Covid levels. A combination of weaker consumer confidence in certain key markets and earlier-than-normal shipping of stock by retailers and other customers has led to relatively subdued air freight demand this quarter, so far – and lowered expectations of any major winter peak season.

LCI, a leading aviation company and a subsidiary of the **Libra Group**, has signed **Aircraft Leasing Ireland's** (ALI) sustainability charter. Signatories are committed to driving forward and achieving Environmental, Social and Governance- (ESG) related goals, centred around ten priority sustainability principles. In signing the charter, an industry that manages more than US\$100bn

MILITARY AND DEFENCE

GKN Aerospace completes first run of RM16 engine in test rig



Run of RM16 engine in test rig

Photo: GKN Aerospace

GKN Aerospace has successfully completed the first engine run of the state-of-the-art RM16 engine that will power the JAS 39 Gripen E. This landmark enables GKN Aerospace to deliver full RM16 product support to the Swedish Armed Forces, ensuring engine availability for future Swedish Air Force missions. The RM16 is based on the General Electric F414 aero-engine that powers the F-18 Super Hornet. GKN Aerospace has been collaborating with GE and SAAB to build up the necessary infrastructure to support the RM16. FMV selected GKN Aerospace to be the product support and MRO provider for the RM16 in 2020 with the aim of utilising synergies between the RM12 and the RM16 engine as much as possible. GKN Aerospace is an Original Equipment Manufacturer (OEM) and a long-term service provider for the RM12 engine and holder of the military type certificate (MTC).

OTHER NEWS

Swissport is opening an air cargo centre at **Central Japan International Airport** (Centrair) in November 2022. The new facility will support the development of air transport and logistics for central Japan's Tokai region and will be Swissport's third domestic base, following Narita International and Kansai International Airport. Set to open on November 1, the new air cargo centre is located on the north side of International Cargo Warehouse 1 at Chubu Centrair International Airport.



On November 1, Swissport will open a new cargo centre at Centrair

Photo: Swissport

The expansion of Swissport cargo facilities and services reflect the steady growth around Japan's Tokai region, home to many large manufacturing companies. Swissport Japan was established in 2006 as a joint venture between Swissport International AG and Marubeni Corporation. The company has been providing airport ground services including passenger, ramp, cargo, lounge and executive aviation at six major airports in Japan: Narita, Haneda, Chubu, Kansai, Fukuoka, and Naha.

OTHER NEWS

of assets pledges its commitment to achieving net-zero carbon objectives. Additional principles and goals include the pursuit of low-carbon technologies such as Sustainable Aviation Fuels (SAF) and hydrogen, the commitment to reuse and recycling, the drive for greater community engagement and corporate ESG accountability and reporting. LCI assets operate on mission critical and socially responsible sectors such as Emergency Medical Services (EMS), Search and Rescue (SAR) and offshore wind. LCI is committed to the latest technology aircraft with the lowest CO2 emissions in its class such as Leonardo AW139 and the Airbus H175 helicopters. LCI is also a member of the Airbus Helicopters Sustainable Aviation Fuel forum. In April 2022, LCI signed an agreement with BETA Technologies to acquire up to 125 of the company's electric vertical take-off and landing (eVTOL) aircraft. The battery-powered aircraft have zero operational emissions and will enable LCI to sustainably support mission-critical operations across the globe.



Photo: Rex and Delta Air Lines launch interline services

Rex Airlines and **Delta Air Lines** have launched an interline service agreement that will create a streamlined travel experience for passengers flying between Australia and mainland America. Under this new agreement, the services will enable: Delta passengers travelling from the U.S., Canada and Mexico to access an expanded network of Rex Airlines' domestic connections to capital cities and across Rex's regional network to 58 destinations throughout all states in Australia, including but not limited to Sydney, Brisbane, Melbourne, Adelaide, the Gold Coast, Coffs Harbour and Port Macquarie. Rex Passengers travelling to the U.S. will have easy access to 40 cities and are able to book all flights, including connecting

flights, under one booking, with a single baggage drop where permitted. Rex Deputy Chairman, Hon John Sharp AM said, "We are proud to enhance our services to our ever-increasing loyal customers by offering seamless connections from our regional and domestic ports to a quality international carrier such as Delta Air Lines. This interline arrangement will make it easier for Australians to visit the U.S. allowing customers to connect onto Delta Air Lines' U.S. network and for Americans to explore more of Australia with over 58 destinations. We are thrilled to be working with a world-class airline," he said.



Photo: IAG Cargo is trialling a new biodegradable film wrap

IAG Cargo, the cargo division of **International Airlines Group** (IAG) is trialling new film to be used for wrapping transported goods, as part of its sustainability strategy. IAG Cargo is working with disposal company and film manufacturer **Verpa Folie**, who has developed this innovative solution of reduced-thickness polyethylene films with U.S.-based **BioNatur Plastics**. With this new sustainable material that is 15-micron thickness, 100% recyclable and biodegradable by landfill, IAG Cargo will save up to 15 tonnes of virgin polyethylene a year. This is beneficial on a global scale, where the receiving country of the goods will be able to sustainably dispose of the film. Not only does the material have an indefinite shelf life, prohibiting unnecessary waste, it can also be used for food and temperature-controlled items – which are

popular services for IAG Cargo. David Rose, Chief Transformation Officer at IAG Cargo commented, "We are continuously looking at ways in which we can reduce our impact on the environment in line with our commitment to sustainability. This solution provided by Verpa Folie, which we plan to roll out across our operation, will reduce our plastic consumption and is another step forward for IAG Cargo as we become fit for future."

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THE AIRCRAFT AND ENGINE MARKETPLACE

Commercial Jet Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
A319-100	FPG Amentum	V2527M-A5	3705	2008	Now	Sale / Lease	Eoin Kirby	eoin.kirby@fpg-amentum.aero	+353 86 027 3163
A319-100	BBAM	CFM56-5B5/P	2119	2004	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
A319-100	BBAM	CFM56-5B5/P	2283	2007	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
A319-112	Deucalion Aviation Limited	CFM56-5B63	3586	2008	Now	Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
A319-133	Deucalion Aviation Limited	V2533M-A5	2965	2007	Q4/2022	Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
A319-131	Deucalion Aviation Limited	V2522-A5	2375	2005	Now	Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
A320-200	BBAM	CFM56-5B4/3	6467	2015	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
A320-200	ORIX Aviation	CFM56-5B4/3	4714	2011	Q3/2023	Lease	Oisín Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A320-200	ORIX Aviation	CFM56-5B4/P	2620	2005	Q2/2023	Lease	Oisín Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A320-200	Deucalion Aviation Limited	V2527-A5	4552	2010	Now	Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
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-60/16	1407	2013	Q4/2022	Sale / Lease	Maurick Groeneveld	maurick.groeneveld@doric.com	+49 (0)69 247559931
A330-200	GA Telesis	PW4168A	322	2000	Jul 2022	Sale / Lease	David Byrne	aircraft@gatelesis.com	+353 86 780 8974
A330-300	BBAM	Trent 772B-60	1633	2015	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
A330-300	BBAM	Trent 772B-60	1609	2015	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
A330-300	BBAM	Trent 772B-60	1482	2014	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B737-300	Deucalion Aviation Limited	CFM56-3C1	4552	1998	Q2/2023	Sale	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
B737-700	BBAM	airframe only	32414	2003	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B737-800	BBAM	CFM56-7B26/3	29637	2009	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B737-800	ORIX Aviation	CFM56-7B26/3	35216	2007	Now	Lease	Oisín Riordan	oisin.riordan@orix.ie	+353 86 335 0004
B737-800	ORIX Aviation	CFM56-7B24E	40318	2012	Now	Lease	Oisín Riordan	oisin.riordan@orix.ie	+353 86 335 0004
B737-900	BBAM	CFM56-7B26/3	34953	2007	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B757-200 Cargo	Airwork Ireland Limited	RB211-535E4	27051	1995	Now	Lease	Robbie Brazel	robbie.brazel@airworkgroup.com	+353 87 372 8262
B757-200 Cargo	Airwork Ireland Limited	RB211-535E4	25297	1992	Q4/2022	Lease	Robbie Brazel	robbie.brazel@airworkgroup.com	+353 87 372 8262
B737-900ER	Deucalion Aviation Limited	CFM56-7B26	35717	2007	Now	Sale / Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
B777-300ER	BBAM	GE90-115BL	38407	2011	Mar 2023	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B777-300ER	ALTAVAIR	GE90-115BL	29146	2013	Now	Sale / Lease	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493
B777-300ER	ALTAVAIR	GE90-115BL	29147	2013	Now	Sale / Lease	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493
B777-300ER	ALTAVAIR	GE90-115B	34600	2006	Now	Sale / Lease	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493
B777-300ER	ALTAVAIR	GE90-115B	39700	2009	Now	Sale / Lease	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493
(6) B777-300ER	ALTAVAIR	GE90-115B	various	12-13	Now	Sale / Lease	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493



THE AIRCRAFT AND ENGINE MARKETPLACE

Regional Jet / Turboprop Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
CRJ-200	Regional One	CF34-3B1	7925	2004	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ-200	Regional One	CF34-3B1	7926	2004	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ-200	Regional One	CF34-3B1	7937	2004	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ-200	Regional One	CF34-3B1	7941	2006	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ-200ER	Regional One	CF34-3B1	8062	2006	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ-200ER	Regional One	CF34-3B1	8059	2005	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ-200LR	Regional One	CF34-3B1	7625	2002	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ900	Regional One	CF34-8C5	15215	2009	Now	Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ900	Regional One	CF34-8C5	15207	2008	Now	Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ900ER	Regional One	CF34-8C5	15111	2007	Now	Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ900ER	Regional One	CF34-8C5	15115	2007	Now	Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
DHC8-Q400	Regional One	PW150A	4042	2001	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
DHC8-Q400	Regional One	PW150A	4100	2005	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
ERJ-145LR	Regional One	AE3007	145508	2001	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
ERJ-145LR	Regional One	AE3007	145515	2001	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
ERJ170-100LR	Regional One	CF34-8E5	17000093	2005	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
SAAB 2000	Jetstream Aviation Capital	AE2100A	031	1996	Now	Sale / Lease	Donald Kamenz	dkamenz@jetstreamavcap.com	+1 (305) 447-1920 x 115
SAAB 340B CRG	Jetstream Aviation Capital	CT7-9B	224	1990	Now	Lease	Bill Jones	bjones@jetstreamavcap.com	+1 (305) 447-1920 x 102
SAAB 340B Plus	Jetstream Aviation Capital	CT7-9B	450	1998	Now	Lease	Bill Jones	bjones@jetstreamavcap.com	+1 (305) 447-1920 x 102

Commercial Engines

AE3007 Engines	Sale / Lease	Company	Contact	Email	Phone
(2) AE3007A1E	Now - Lease	Aircraft and Engine Lease Corp.		fleetmanager@aalc.aero	
CF34 Engines	Sale / Lease	Company	Contact	Email	Phone
CF34-8E5	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
CF34-10E	Now - Lease				
CF34-8C	Now - Lease				
CF34-3A	Now - Sale / Lease				
(2) CF34-10E6 Full QEC	Now - Sale / Lease	DASI	Joe Hutchings	joe.hutchings@dasi.com	+ 1 954-478-7195
(1) CF34-10E5A1 Full QEC	Now - Sale / Lease				
(4) CF34-10E6	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(2) CF34-10E7	Now - Lease				
(1) CF34-8C5A1	Now - Sale/Lease/Exch.	Magellan Aviation Group	Bradley Hogan	bradley.hogan@magellangroup.net	+1 980.256.7120
(2) CF34-8C5B1	Now - Sale/Lease/Exch.				
(3) CF34-8E5A1	Now - Sale/Lease/Exch.				
(1) CF34-10E6	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717



THE AIRCRAFT AND ENGINE MARKETPLACE

Commercial Engines (cont.)

CF6 Engines	Sale / Lease	Company	Contact	Email	Phone
(2) CF6-80E1	Now - Lease	Deucalion Aviation Limited	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
CFM Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CFM56-5B3/3	Now - Lease	FTAI Aviation LLC	Mark Napoles	mnapoles@ftaiaaviation.com	+1 786-785-0777
(1) CFM56-5B4/P	Now - Lease				
(1) CFM56-5B3/P	Now - Lease				
(1) CFM56-5B1/P	Now - Lease				
(1) CFM56-7B24	Now - Lease				
(1) CFM56-7B26	Now - Lease				
(3) CFM56-7B24/3	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(2) CFM56-7B24/E	Now - Lease				
(1) CFM56-7B26	Now - Lease				
(1) CFM56-5C4/P	Now - Lease				
(2) CFM56-5C4	Now - Lease				
(2) CFM56-7B26E	Now - Lease				
(2) CFM56-5B5/P	Now - Sale / Lease	BBAM	Steve Zissis	info@bbam.com	+1 787 665 7040
(1) CFM56-5B4/P	Now - Sale / Lease				
(2) CFM56-5B6	Now - Sale / Lease				
(1) CFM56-5A3	Now - Sale	Royal Aero	Gary MacLeod	gary@royalaero.com	+44 (0)1357 521144
(1) CFM56-5B2/P	Now - Sale/Lease/Exch.	Contrail Aviation Support	Mark Shaw	mark@contrail.com	+33 6 5834 1965
(2) CFM56-7B22	Now - Lease	Deucalion Aviation Limited	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
(1) CFM56-7B26/3	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CFM56-7B24/E	Now - Lease				
(1) CFM56-5B4/3	Now - Lease				
(1) CFM56-5C4/P (u/s)	Now - Sale	Castlelake	Stuart MacGregor	Stuart.macgregor@castlelake.com	+44 207 190 6138
(1) CFM56-7B22/3	Now - Lease				
(1) CFM56-5B3/P	Now - Sale	FL Technics	Modestas Valiusevicius	m.valiusevicius@fltechnics.com	+370 5 252 5015
(1) CFM56-5B6/3	Now - Sale / Lease	GA Telesis		engines@gatelesis.com	
(1) CFM56-5B3/P	Now - Sale/Lease/Exch.	Magellan Aviation Group	Bradley Hogan	bradley.hogan@magellangroup.net	+1 980.256.7120
(2) CFM56-5B6/P	Now - Sale/Lease/Exch.				
(1) CFM56-7B27	Now - Sale/Lease/Exch.				
GE90 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) GE90-94B	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) GE90-115BL (Propulsor)	Now - Lease				
(2) GE90-90B	Now - Sale/Lease/Exch.	BBAM	Steve Zissis	info@bbam.com	+1 787 665 7039
LEAP Engines	Sale / Lease	Company	Contact	Email	Phone
(1) LEAP-1A35	Sep-15-2022 - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
PW1100G Engines	Sale / Lease	Company	Contact	Email	Phone
(1) PW1100G-JM	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
PW 4000 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) PW4168	Now - Sale / Lease	Castlelake	Graeme Dodd	Graeme.dodd@castlelake.com	+44 207 190 6138
(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
PW119B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
PW119B	Now - Lease				
PW120A	Now - Lease				
PW121 (ATR)	Now - Lease				
PW124B	Now - Lease				
PW123B	Now - Lease				
PW125B	Now - Lease				
PW127F	Now - Lease				
PW150A	Now - Lease				
PW127M	Now - Lease				
PW150A RGB	Now - Lease				

THE AIRCRAFT AND ENGINE MARKETPLACE

PW Small Engines	Sale / Lease	Company	Contact	Email	Phone
(1) PW123	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	leasing@willislease.com	+1 (561) 349-8950
(1) PW127M	Now - Sale/Lease/Exch.				
(1) PW121	Now - Sale/Lease/Exch.	Magellan Aviation Group	Bradley Hogan	bradley.hogan@magellangroup.net	+1 980.256.7120
(1) PW123	Now - Sale/Lease/Exch.				
(1) PW127F	Now - Sale/Lease/Exch.				
(1) PW127M	Now - Sale/Lease/Exch.				
(1) PW150A	Now - Sale/Lease/Exch.				
(1) PW150A	Now - Sale/Lease/Exch.	Regional One	Duane Butler	Dbutler@regionalone.com	+1 561-809-0001
Trent Engines	Sale / Lease	Company	Contact	Email	Phone
(2) Trent 772B-60	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	RRPF Marketing	RRPFMarketing@rolls-royce.com	+44 7528975877
(1) Trent XWB-84	Now - Sale/Lease/Exch.				
(1) Trent 556-61	Now - Sale/Lease/Exch.				
(1) Trent 772B-60	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
V2500 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) V2527-A5	Q3/2022 - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	RRPF Marketing	RRPFMarketing@rolls-royce.com	+44 7528975877
(1) V2533-A5	Now - Sale/Lease/Exch.				
(3) V2533-A5	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) V2524-A5	Now - Lease				
(1) V2527-A5	Now - Lease				
(2) V2527-A5	Now - Sale / Lease	Castlelake	Graeme Dodd	Graeme.dodd@castlelake.com	+44 207 190 6138
(1) V2533-A5	Now - Lease	FTAI Aviation LLC	Mark Napoles	mnapoles@ftaiairline.com	+1 786-785-0777
(2) V2522-A5	Now - Lease	Deucalion Aviation Limited	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
(2) V2527-A5	Now - Lease				
(2) V2527-A5	Now - Sale/Lease/Exch.	Magellan Aviation Group	Bradley Hogan	bradley.hogan@magellangroup.net	+1 980.256.7120
(2) V2533-A5	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) V2527E-A5	Now - Lease				
(4) V2527-A5	Now - Sale / Lease	GA Telesis		engines@gatelesis.com	
Aircraft and Engine Parts, Components and Misc. Equipment					
Description		Company	Contact	Email	Phone
(1) GTC331-500B	Now - Sale / Exchange	Centaurus Services/MASB	Paul Bithavas	paul.bithavas@centaurus.services	+61 408 389 241
Trent 892B-17 Modules					
(2) GTC331-200ER, (2) GTC331-9A,	Now - Sale	Setna IO	David Chaimovitz	david@setnaio.com	+1-312-549-4459
(1) GTC331-9B					
(1) A321 Enhanced Landing Gear 2020 OH					
(2) A320, (2) A330, (1) A340 Landing Gear Shipsets		GA Telesis		landinggearsales@gatelesis.com	
(1) A320 ENH NLG					
GTC331-9A (2), GTC331-9B(2)	Now - Lease	REVIMA APU	Olivier Hy	olivier.hy@revima-apu.com	+33(0)235563515
GTC331-200, GTC331-250	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) RE220, (1) APS3200, (1) GTC331-9A	Now - Sale / Lease	Magellan Aviation Group	Drew Megorden	drew.megorden@magellangroup.net	+1 704-340-0273
(1) GTC331-9B, (1) GTC331-500B	Now - Sale / Lease				
(1) GTC331-500B	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) GTC331-200ER, (2) RE220RJ	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 954-683-1893
(2) GTC331-150RJ					
Neutral V2500-A5 QEC Kits (2) 745K9001-64	Now - Sale	ASI Aero	Dean Morgan	deanm@asiaero.net	+1 561-771-4253
(3) GTC331-9B		GA Telesis	Jay Meshay	apu@gatelesis.com	+1-954-849-3509
(1) GTC331-350, (1) GTC331-500, (1) APS3200B, (1) APS3200C					
Engine stands: CF6-80C2, CFM56-3, CFM56-5A/B/C, PW4000			Ricky Torres	stands@gatelesis.com	+1-954-676-3111
(3) APU GTC131-9B, (1) GTC331-500B	Now - Sale / Lease	Willis Lease	Gavin Connolly	gconnolly@willislease.com	+44 1656 765 256
Engine stands now available	Now - Lease				
(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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