

Weekly Aviation Headline News

WORLD NEWS

Hainan Airlines signs new ramp handling contract with WFS

Hainan Airlines has added a new ramp handling contract to its longstanding cargo handling partnership with Worldwide Flight Services at Seattle-Tacoma International Airport. The Chinese airline, which has been a customer of WFS in Seattle for cargo handling since 2013, has now appointed WFS to also provide loading and unloading of its 3-5 weekly passenger freighter services connecting the US west coast city with Shanghai Pudong.

ANA Holdings unveils new carrier "Air Japan"

ANA Group has announced more information about Air Japan an entirely new brand for medium-haul international routes from Japan. Preparations are underway to launch in the second half of FY2023. The new airline will supposedly be neither a full-service nor low-cost carrier creating a completely new kind of air travel experience. The carrier is expected to deploy a fleet of 787s, and in-flight specifications and services will be announced later.

Loganair to add fuel surcharge in response to rising prices

UK regional airline, Loganair, has announced that it will add a fuel surcharge on to new ticket sales as it responds to increasing worldwide fuel prices. The airline has also clearly laid out the steps for the fuel charge's removal as and when global oil prices fall. If the price of Brent crude oil falls below \$110 per barrel for six consecutive weeks, the surcharge will be halved, the airline stated.



The 757s will bring the fleet operated by Amerijet to 20 freighters.
Photo: Amerijet

Amerijet International's expansion As Boeing 757 continues to attract conversion

Data from *ch-aviation* shows a fleet of 172 active 757-200s that could potentially be converted to freighters. Despite the feedstock levels drying up, and competition from the A321 intensifying, some operators continue to see the value in 757 conversions to freighters.

Amerijet International Airlines is the latest operator to add 757 capacities announcing the introduction of six 757 freighters to its fleet. The addition comes as part of a comprehensive expansion and modernisation strategy launched by the company in 2020. The 757-200(PCF) freighters will offer capacity, range, and payload capability ideally suited for destinations throughout its Caribbean, Mexico, Central American and European network. These additional aircraft will bring the fleet operated by Amerijet to 20 freighters, including six 767-200F

and eight 767-300F models.

"These aircraft will be a wonderful addition to our fleet, giving us a platform for continued growth as we approach 50 years of continuous service from our home base in Miami, Florida," said Tim Strauss, Amerijet's Chief

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Tim Strauss, Amerijet CEO

Executive Officer.

Amerijet's 757-200PCF's are powered by Rolls-Royce RB211 engines capable of maximum payloads in the hot and humid climates and shorter runways that are common throughout Amerijet's service region. As part of that expansion, the company also announced its plans to continue adding flight crews, maintenance, and technical personnel.

Additional data from *ch-aviation* shows there are 110 757PCFs in global operation with 17 airlines including Cargojet and DHL Air. Current market values stand at around US\$6.36 to 19.84m and market lease rates going at US\$120,000 to 225,000.

Earlier this year, AerSale also announced that it had inducted its first of its 24-owned 757-200 aircraft for passenger-to-freighter conversion at its heavy-MRO centre in Goodyear, Arizona. All

24 of these aircraft are powered by RB211-535 engines.

Elsewhere, Astral Aviation in Kenya is the latest to induct a 757-200 converted freighter which arrived in Nairobi in early March 2022 with planned entry into service in mid-March with lease transactions from Aquila Air Capital, Warburg, Pincus LLC, Al Wood with SkyExec Aviation and Air-Tec.



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AIRCRAFT & ENGINE NEWS

Avion Express nominated as long-term ACMI partner for Eurowings

ACMI (Aircraft, Crew, Maintenance, and Insurance) operator Avion Express has announced a new partnership with Lufthansa Group's Eurowings, a leisure airline headquartered at Cologne Bonn Airport. The cooperation to wet lease 11 A320 aircraft will start at the beginning of the IATA summer season 2022. After a successful and thorough selection process, Avion Express was nominated as the long-term ACMI partner for Eurowings, which currently flies to more than 100 destinations across Europe as part of its present flight schedule. With the pent-up travel demand continuing from last year, the partnership reflects booming numbers in holiday bookings for the upcoming summer season in 2022. Eurowings, operating from the airports of Düsseldorf, Hamburg, Stuttgart and Cologne Bonn, currently has a fleet of 100 aircraft. With a focus on affordable products and services, the airline offers a large number of non-stop flights within Europe.

Orders and deliveries – Boeing and Airbus

Airbus v Boeing: Orders and Deliveries

February 2022 YTD

Airbus			Boeing		
Type	Orders	Deliveries	Type	Orders	Deliveries
A220	72	6	737	84	49
A320 Family	0	60	747	0	1
A330	-17	3	767	0	2
A350	0	10	777	27	2
A380	0	0	787	-4	0
Total	55	79	Total	107	54

Source: Airbus

Source: Boeing

Airbus generated 113 orders in February and delivered 49 aircraft to 32 operators.

Boeing recorded 27 orders for the month while delivering 22 aircraft.

Jet2 orders CFM LEAP-1A engines to power up to 75 Airbus A321neo aircraft



Jet2 Airbus A321neo in-flight

Photo: Airbus

UK-based Jet2 plc has selected CFM International's advanced LEAP-1A engines to power its order for up to 75 Airbus A321neo aircraft. The order includes spare engines and a long-term services support agreement. Jet2 plc has been a CFM customer since 2002 and has selected the LEAP engine as part of its fleet renewal strategy. "The LEAP engine has been demonstrating significant improvements in terms of CO2 and noise emissions that will help us optimize our operations and provide a more comfortable customer experience. We are also going to increase the use of Sustainable Aviation Fuels (SAF) with the LEAP engine to address our ambitious sustainable goals" said Philip Meeson, Executive Chairman of Jet2 plc. CFM's advanced LEAP-1A engine continues to set new industry standards for fuel efficiency and asset utilisation, logging more than 15 million engine flight hours in commercial operation. The fleet is providing 15% better fuel consumption and lower CO2 emissions, as well as a significant improvement in noise compared to previous-generation engines.

Jet Aviation Australia sells five Bell 407GXl helicopters to Nautilus Aviation

Jet Aviation Australia has sold five Bell 407GXl helicopters to Nautilus Aviation. As Bell's independent representative for Australia, New Zealand, Papua New Guinea and New Caledonia, Jet Aviation Australia has also been commissioned to customise the five helicopters. Staggered redelivery will commence in late 2022. Nautilus Aviation is a privately owned helicopter operator in Australia with a mixed turbine fleet of Bell 206, 206L4, 505, 407 and 412EP helicopters. In 2018, it was the first helicopter operator in Asia Pacific to take delivery of the Bell 505. Aaron Finn, CEO of Nautilus Aviation, said, "Nautilus Aviation has been operating helicopters for more than 25 years. Based on our helicopter fleet and steadfast commitment to the safety of all passengers and personnel, we have earned and developed a reputation for quality. The Bell 407GXl helicopter has great all-round visibility for tourism and we appreciate Bell's outstanding customer service. After careful consideration of our operational requirements and a commitment to further reduce our environmental footprint, I am confident these new fleet additions will enhance our reputation and position us for growth as the Australian economy continues its recovery from the pandemic."



Nautilus Aviation has bought five new Bell 47GXl helicopters from Jet Aviation Australia
Photo: Jet Aviation Australia

AIRCRAFT & ENGINE NEWS

Robinson receives two more orders for R66 Police Helicopters from Polk County Sheriff's Office



Florida's Polk County Sheriff's Office has ordered two additional R66 Police Helicopters

Photo: Robinson Helicopter

Robinson Helicopter Company has received two more R66 Police Helicopter orders from Florida's Polk County Sheriff's Office (PCSO) less than a year after the department took delivery of its first R66 Police helicopter. Centrally located between Orlando and Tampa, PCSO flies, on average, 1,100 hours each year providing air support for every law enforcement agency in its 2,000-square-mile county (pop. 750,000) as well as surrounding counties. "We are adding a second and third R66 because of our confidence in the helicopter's ability and functionality. It's a great aircraft that has reduced our operating costs by nearly fifty percent," said Sheriff Grady Judd. Both R66s will be equipped with auxiliary fuel tanks and impact-resistant windshields, NVG-compatible lighting in the cockpit with a full complement of modern avionics including a Garmin G500H display, AeroComputers moving map system, Genesys HeliSAS Autopilot, Technisonic tactical radio and a Wescam MX-10 camera system. Both aircraft are scheduled for delivery in 2022.

Sikorsky, United Rotorcraft prepare for S-70™ FIREHAWK® helicopter demand

Sikorsky, a Lockheed Martin company, and United Rotorcraft, a division of Air Methods Corporation, have signed a marketing teaming agreement that formalises how both companies will collaborate to meet growing global interest in the S-70™ FIREHAWK® helicopter. The agreement will enable the team to identify demand and more quickly build and configure new production FIREHAWK helicopters for government agencies worldwide that require a highly effective solution to attack increasingly deadly wildland fires. The agreement will allow United Rotorcraft to contract for bulk orders of S-70 Black Hawk® aircraft, much as it did in August 2021 with an initial five-aircraft order from Sikorsky. Four of the five aircraft will arrive at United Rotorcraft's Englewood, Colorado completions facility this year from the S-70 production line at PZL Mielec, a Lockheed Martin company in Poland. The first aircraft of the bulk order will be modified to the FIREHAWK configuration for delivery in 2023 to the State of Colorado. An S-70 BLACK HAWK aircraft becomes a FIREHAWK helicopter when United Rotorcraft adds a 1,000-gallon (3,785-litre) water tank system, a raised landing gear (to accommodate the tank) and associated integrated avionics, a process that typically takes six months. United Rotorcraft has been the FIREHAWK completion teammate of Sikorsky since the late 1990s working closely with Sikorsky and first customer the County of Los Angeles Fire Department, which today operates two S-70i™ and three S-70A™ FIREHAWK aircraft. Other operators include CAL FIRE and the City of San Diego Fire-Rescue. United Rotorcraft recently introduced a digital control mode that gives either pilot greater control of water released to suit the type of fire, and in 2023 will offer both the currently available aluminium tank and a new lightweight, composite tank option.



A FIREHAWK aircraft operated by CAL FIRE demonstrates the high pressure and concentration of water released from its 1,000-gallon tank for effective wildfire fighting

Photo: Lockheed Martin

AIRCRAFT & ENGINE NEWS

STAT MedEvac orders ten new Airbus H135 helicopters

STAT MedEvac (STAT) has committed to ordering ten new H135 helicopters as part of a fleet renewal initiative for its air medical operations. STAT's total Airbus fleet, a mix of H135 and H145-family aircraft, operates out of 18 bases. STAT MedEvac has flown Airbus helicopters since commencing operations in 1985 and has a longstanding history with the H135 family – it was the first air ambulance programme in North America to operate the EC135 in 1997, the first single-pilot IFR programme with an EC135 in US. Helicopter Emergency Medical Services (HEMS), the launch customer of the latest H135 variant in North America and the launch customer of the Helionix-equipped version in 2019. The Pennsylvania-based critical care transport provider is the clinical arm for the Center for Emergency Medicine of Western Pennsylvania and is also the largest single branded, non-profit medical transport system in the Eastern United States.



STAT MedEvac Airbus H135 helicopter

Photo: Dianne Bond

Embraer spots gap in cargo market and launches the E190F and E195F P2F conversions



Embraer takes aim at the air freight market with the launch of E190F and E195F P2F conversions
Photo: Embraer

Brazil's Embraer has announced the launch of its E190F and E195F Passenger to Freight (P2F) conversions with a mid-size jet that, capacity wise, fills a gap between turboprops and narrow-body jet freighter aircraft. The first of its converted aircraft, which is available to any pre-owned E-190 and E-195 jets, should be in service by 2024. With the changing demands of e-commerce that not only require rapid deliveries but also decentralised operations, right-sized jets can provide the necessary cargo economics and unbeatable flexibility. "Perfectly positioned to fill the gap in the freighter market between turboprops and larger narrow-body jets, our P2F E-Jet conversion hits the market as the demand for airfreight continues to take off and as e-commerce and trade in general undergoes a global structural transformation," said Arjan Meijer, President and CEO Embraer Commercial Aviation. Those earlier E-Jets that entered service around ten-plus years ago are now coming out of long-term leases and commencing their replacement cycle, which will continue over the next decade. The full cargo conversion will extend the life of the most mature E-Jets by a further 10 to 15 years, as an efficient, more

sustainable and quieter aircraft. Embraer's E-Jet P2F conversions will deliver excellent performance and economics. The E-Jet Freighter will have over 50% more volume capacity, three-times the range of large cargo turboprops, and up to 30% lower operating costs than narrow-body jets. The conversion to freighter will be performed at Embraer's facilities in Brazil and will include: main deck front cargo door; cargo handling system; floor reinforcement; Rigid Cargo Barrier (RCB) – 9G Barrier with access door; cargo smoke detection system, including class "E" extinguishers in upper cargo compartment; Air Management System changes (cooling, pressurisation, etc); interior removal and provisions for hazardous material transportation. The E190F will be able to carry a payload of 23,600lb (10,700kg) while the E195F will be able to carry up to 27,100 lb (12,300 kg).



AIRCRAFT & ENGINE NEWS

Aergo Capital completes purchase and leaseback of five Dash 8-400 aircraft with Porter Aircraft Leasing

Aergo Capital (Aergo) has successfully completed the purchase and leaseback of five De Havilland Dash 8-400 aircraft with Porter Aircraft Leasing Corp., a wholly owned subsidiary of Porter Aviation Holdings (Porter). The aircraft, bearing manufacturing serial numbers 4130, 4134, 4138, 4140 and 4193, all closed in December 2021 and are operated by Porter from its Toronto headquarters. "The ability to capitalise a portion of Porter's Dash 8 fleet demonstrates that we have additional financing options to strengthen our balance sheet," said Jeffrey Brown, Executive Vice President and CFO, Porter. "We intend to use these funds as supplementary working capital as the airline industry continues its pandemic recovery." Smith, Gambrell & Russel acted as a lead counsel to Aergo and KPMG advised on tax matters. Seabury Securities acted as advisor and placement agent to Porter for these transactions, with Parr Brown Gee & Loveless acting as lead legal counsel.



Porter Airlines Dash 8-400 aircraft

Photo: Aergo Capital

SmartLynx Airlines to introduce first Airbus A330-300 Freighters to its fleet



Airbus A330-300F

Photo: SmartLynx

In a move to bolster its position as a leading air cargo carrier, SmartLynx Airlines has signed an agreement with Air Transport Services Group (ATSG) to be one of the first customers to take delivery of six Airbus A330-300 P2F converted cargo freighters under the terms of a six-year lease. SmartLynx Airlines is an integral part of Avia Solutions Group, a leading global aerospace services group providing aviation services and solutions worldwide, for whom the introduction of the new A330-300 P2F will reflect the company's commitment to operating a modern and environmentally friendly fleet. With the first of the aircraft due to join the SmartLynx fleet in 2023, the A330 type offers the benefits of unmatched operational economics and versatility, with over 1,500 orders on Airbus' books and over 1,100 units operational for 110 operators worldwide, the aircraft is historically one of the most popular wide-body aircraft ever to come into service.

Boston MedFlight orders first five-bladed H145 helicopter

Boston MedFlight has signed an order for its first five-bladed H145 helicopter as part of a fleet renewal and expansion project to support an increased need for critical care transportation in New England. Boston MedFlight is the region's primary provider of critical care and medical transport, caring for more than 5,600 patients annually, including the most critically ill and injured infants, children and adults. A 501(c)(3) non-profit organisation, Boston MedFlight provides more than US\$7 million (£5.4 million) each year in free and unreimbursed care to patients in need who have little or no insurance. Its current Airbus fleet of five H145 helicopters serve as mobile ICUs, staffed by a critical care nurse and critical care paramedic. The purchase of the new five-bladed H145 is part of an ongoing fleet renewal and expansion programme to meet increased demand for critical care transport in the Boston area, where they have been saving lives for nearly 40 years. Boston MedFlight also plans to retrofit its current fleet to the five-bladed variant in the next year.



Boston MedFlight is the region's primary provider of critical care and medical transport
Photo: Airbus

AIRCRAFT & ENGINE NEWS

Ethiopian Airlines signs MoU with Boeing for five 777-8 Freighters

Ethiopian Airlines has signed a memorandum of Understanding with Boeing, confirming its intent to purchase five of the industry's latest, fuel-efficient freighters, the Boeing 777-8. The order will enable the African airline to deal with increasing global cargo demand from its Addis Ababa hub and to facilitate future, long-term sustainable growth. The Boeing 777-8 was only launched in January of this year and has already received 34 firm orders. While the plane may carry virtually the same payload as the 777X family of jets, it operates at 30% better fuel efficiency, emissions and operating costs. At present, Ethiopian Airlines operates nine 777 Freighters, connecting Africa with more than 40 cargo centres throughout Asia, Europe, the Middle East and Americas. Additionally, the company's fleet includes three 737-800 Boeing Converted Freighters and a combined commercial fleet of more than 80 Boeing jets including 737s, 767s, 787s and 777s.



Ethiopian Airlines has signed an MOU with Boeing to purchase five 777-8 Freighters
Photo: Boeing

DHL Group continues fleet modernisation, acquiring more 777 Freighters



DHL Express Boeing 777F

Photo: AirTeamImages

DHL Express has placed an order for six additional 777 Freighters with Boeing. The purchase takes DHL Express' order book total to 28 777 Freighters since it placed its first direct order in 2018. "With the order of six new, large, wide-body freighter aircraft, we continue to invest in our future and further enhance the capability and reach of our global air network. The Boeing 777 Freighter is the most fuel-efficient aircraft in its class and will connect DHL's global hubs in Cincinnati, Leipzig and Hong Kong as well as serving other key markets," said Geoff Kehr, Senior Vice President, Global Air Fleet Management, DHL Express. The 777 Freighter improves fuel efficiency and reduces CO2 emissions by 17% compared to legacy airplanes. DHL Express has taken delivery of 15 777 Freighters to date.

MRO & PRODUCTION NEWS

SR Technics opens new six-bay hangar in Malta

MRO service provider SR Technics has announced the opening of a new six-bay hangar including significant back-shop facilities for its Centre of Excellence (CoE) for aircraft maintenance in Malta. This project will enable SR Technics to continuously provide high-quality aircraft maintenance and cabin modification services, now for up to six narrow-body aircraft of the B737 and A320 families simultaneously. Besides offering new opportunities to customers located within the EMEA region in a very central hub for the aviation industry, SR Technics Malta will eventually employ around 500 highly trained professionals. The SR Technics Centre of Excellence for narrow-body aircraft maintenance in Malta has been offering efficient high-performance maintenance services since 2010 which are based on safety, quality and reliability. The attractive platform combines proven quality and technical excellence with advantageous commercial terms.



Official opening of SR Technic's new six-bay hangar in Malta

Photo: SR Technics

MRO & PRODUCTION NEWS

AACC partners with Safran to develop commercial aircraft and military rotary landing gear MRO capabilities

Saudi Aircraft Accessories and Components Company (AACC), a subsidiary of Saudi Arabian Military Industries (SAMI), has announced the signing of a four-year partnership agreement with Safran Landing Systems to expand its maintenance, repair and overhaul (MRO) capabilities to offer commercial aircraft and military rotary landing gear overhaul services in the Kingdom of Saudi Arabia. As one of the largest MRO service providers in the Middle East, AACC currently offers landing gear MRO services for F-15, C-130 and Typhoon military fixed-wing aircraft. Thanks to this partnership with Safran Landing Systems, AACC will significantly enhance its MRO capabilities in the Gulf region. In addition to contributing to the MRO development in the Kingdom, the strategic partnership will lead to the creation of new quality jobs for Saudis and the transfer of new skills and knowledge, as well as generating additional business in France and the United Kingdom. This contract will also benefit from Landing Life™, the support and services offer, which covers all Safran Landing Systems' after-sales business and aims.



Signing of the new partnership agreement between AACC and Safran Landing Systems Photo: Safran

Aventure acquires second Copa Airlines Boeing 737NG for teardown



Photo: Aventure's second Copa Airlines Boeing 737NG at Roswell, New Mexico

Aventure Aviation has acquired a second Boeing 737NG, MSN 30460, recently retired by Copa Airlines. The teardown is currently underway in Roswell, New Mexico. Components include the landing gear set, APU and various ATA chapter parts. Aventure's first Copa Airlines 737NG was acquired in 2021. Aventure is in active discussions with owners, financial institutions, lessors and airlines to find revenue-generating teardown solutions for idle aircraft. Talks have increased due to the amount of early lease returns from Russia and conflict zones. "We have received much interest from owners facing the never-ending costs of keeping aircraft parked with recurring maintenance, insurance and parking fees," said Talha Faruqi, President of Aventure. "Our ability to offer immediate purchase or consignment options are valued by our clients."

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MRO & PRODUCTION NEWS

AEI receives UK Civil Aviation Authority STC approval for B737-800SF freighter conversion

Aeronautical Engineers (AEI) has released that the UK Civil Aviation Authority has approved AEI's STC (ST02690LA) for the 12-pallet position B737-800SF freighter conversion. AEI currently has FAA, CAAC, EASA, TCCA, Cayman, Guernsey, and now UK-CAA approvals for its B737-800SF freighter conversion. The first AEI B737-800SF converted freighter for which this approval will apply just arrived in the UK and will begin operations shortly with an undisclosed customer. This is the first CAA approval that AEI has gained from the UK authorities. In the past when the United Kingdom was part of the European Union, EASA governed STC approvals. However, since Brexit, STC approvals in the United Kingdom are now handled by the UK Civil Aviation Authority. AEI is currently the only conversion company to have ETOPS 180 approval on the 737-800 freighter conversion. Additionally, AEI can convert all 737-800 line-number aircraft including those with Split Scimitar winglets. The AEI converted B737-800SF freighter offers a main deck payload of up to 52,700 lbs. (23,904 kg) and incorporates eleven full-height 88" x 125" container positions, plus an additional position for an AEP/AEH. The conversion also incorporates new floor beams aft of the wing box, and a large 86" x 137" main cargo door with a single vent door system.

StandardAero to serve helicopter customers with more MRO offerings after integration of Signature Aviation's ERO business

StandardAero acquired Signature Aviation's Engine Repair (ERO) and Overhaul business last year, growing the combined companies' significant helicopter MRO capabilities to better serve customers with expanded offerings. The addition of ERO immediately expanded StandardAero's existing capabilities for providing MRO services for M250, RR300, PT6T, T700 and CT7 helicopter engines and added new OEM licenses for CTS800 engines and PW200 engines as new platforms to its MRO portfolio, while also expanding parts distribution channels and mobile field services for customers worldwide. The acquisition also included Signature Aviation's helicopter MRO facilities in Dallas, Portsmouth UK and Broomfield Colorado, providing StandardAero with increased capacity for engine MRO, accessories and component piece part

TCI galleys will fly with Canada's newest airline, Lynx Air

Lynx Air (Lynx), Canada's newest ultra-affordable airline, has entered an agreement with TCI Cabin Interior (TCI) for the design and manufacturing of its cabin interior products. The airline, headquartered in Calgary, AB, will use the galleys and monuments produced by TCI in its fleet of 40 Boeing 737 MAX 8 aircraft.



Lynx Air has contracted TCI for the design and manufacturing of its cabin interior products
Photo: TCI

TCI, founded in 2010, is the joint venture of TA, Turkish Airlines and Turkish Technic. In line with Turkey's aviation goals and 2023 vision, it has been gaining ground in engineering, quality and certification since its foundation and completed its first Boeing and Airbus programme deliveries in 2014. By the end of 2015, TCI was listed in Boeing's Global Offerable list. Along with the projects conducted with Boeing, Airbus, and Stelia, TCI became the global supplier of many airlines and leasing companies such as Turkish Airlines, SunExpress, Jet Airways, SpiceJet, Azerbaijan Airlines, Donghai Airlines and Anadolu Jet. TCI operates in the MRO Center at Sabiha Gökçen International Airport with more than 160 employees. TCI has been increasing its expertise in the design, testing, certification and manufacturing of aircraft cabin interior products such as galleys, monuments, lavatories, overhead bins and windscreens. It aims to increase its product range in the near future with other industrial products like cargo containers, cargo pallets and trolleys, while continuing to export significantly with its domestic sub-contractors in the aviation industry.

Safran and Bell to collaborate on SAF initiative for Bell 505 helicopter



Safran and Bell to collaborate on sustainable aviation fuel initiative for Bell 505 helicopters
Photo: Bell

Safran Helicopter Engines and Bell Textron have announced a collaboration initiative to explore technical performance and economic impacts of sustainable aviation fuel (SAF) on the Arrius 2R-powered Bell 505 helicopter. A single, dedicated Bell 505 aircraft will conduct flights solely with the use of blended SAF. Both Bell and Safran Helicopter Engines will evaluate engine and aircraft performance data to better

assess the collateral benefits associated with the incorporation of SAF, a significant tool being used to reach industry carbon reduction objectives. With all its engine range already certified to operate on up to 50% SAF, the Safran objective is to certify in the coming years the use of 100% SAF, which can potentially result in carbon lifecycle emission reductions by up to 80%. In 2021, Safran conducted a ground test campaign for a Makila 2 running on 100% SAF and followed this with successful flight tests. Safran Helicopter Engines is strongly committed to reducing carbon emissions at its sites worldwide by incorporating SAF at all its test benches. Since last June, the manufacturer has been using it at every site in France, initially at a level of 10% of total aviation fuel usage, with a target of 50% by 2025. It has also recently deployed SAF to its UK facility at Fareham.

MRO & PRODUCTION NEWS

repairs. StandardAero's helicopters team foresees a multitude of benefits for current and future customers including enhanced operational efficiency, better turn times, expanded engineering expertise, expanded global and field service presence and more global aftermarket support network and services.

Aero Controls adds 777 flap transmissions repair capability

Aero Controls continues to expand Boeing 777 component repair capabilities with the addition of the SB 777-27A0123 flap transmissions repair which includes inspection and replacement of the ratchet pawls. Customers may provide the top kits PN 005W0134-1 and Aero Controls will provide the labour to repair, service and test the units. In the event there is suspected damage to the pawls, further inspection and additional repairs may occur and the services will be charged on a time and material basis. Average turnaround time is ten days.

Rolls-Royce names four new RR300 authorised maintenance centres

Rolls-Royce has announced that four FIRST network™ members have enhanced their capabilities to include certified service for RR300 engines. Airborne Engines, Arrow Aviation and Keystone Turbine Services are each certified as Authorised Maintenance Repair & Overhaul Centres (AMROC). National Airways is certified as an Authorised Maintenance Centre (AMC). Each of these companies had previously been certified Rolls-Royce M250 maintenance centres and will now be able to provide world-class service for both the M250 and RR300 product lines. With more than 16,000 turboshaft and turboprop engines in service and 4,500 customers worldwide, the Rolls-Royce FIRST network provides M250 and RR300 operators a global network of authorised MRO service centres. The FIRST network includes more than 30 approved, licensed service centres and its competitive structure means operators can find affordable and reliable service anywhere for Rolls-Royce M250 or RR300 engines. The proven Rolls-Royce M250 and RR300 engines have powered more than 260 million flight hours of dependable service around the world. To date, more than 33,000 of these workhorse engines have been delivered to the marketplace.

GE and Bristow Group sign services agreements for S-92 and AW189 fleets

GE and Bristow Group have signed ten-year TrueChoice Flight Hour agreements for Bristow's CT7-8A powered Sikorsky S-92 fleet and its CT7-2E1 powered Leonardo AW189 fleet. This consolidates the multiple TrueChoice agreements held by Bristow Group following its June 2020



The S-92 helicopter powered by GE's CT7-8A engine

Photo: Bristow Group

merger with Era Group into just two, long-term agreements. Bristow currently operates 67 S-92 and 18 AW189 helicopters for a variety of missions, including its UK Search and Rescue (SAR) contract and Oil & Gas (O&G) and SAR services globally. GE and Bristow have a long-standing relationship for CT7 engine support.

Airbus partners with Spirit AeroSystems to develop wings of CityAirbus NextGen



CityAirbus NextGen

Photo: Airbus

Airbus has signed an agreement with Spirit AeroSystems through its subsidiary for the development of CityAirbus NextGen's wings. This partnership will support Airbus' exploration of disruptive aircraft design while complying with the most stringent regulations. Spirit AeroSystems will be responsible for developing and manufacturing CityAirbus NextGen's wings in Belfast,

Northern Ireland. Both partners' ambition is to achieve a minimum weight solution while ensuring the highest levels of safety. The structural concept of the eVTOL's fixed wings will be able to transmit the related aerodynamic loads while being optimised for the right balance between hover and cruise efficiency. CityAirbus NextGen's distributed propulsion system will contribute to reducing the influence of air turbulence. "The partnership with Spirit AeroSystems is an important step for the development of CityAirbus NextGen and its wings are key structural components for flight efficiency," said Jörg Müller, Head of Urban Air Mobility (UAM) at Airbus. "To build this vehicle, we are proud to work with Spirit as a strategic partner who benefits from a proven track record in this field, and extensive experience in component quality and airworthiness." The fully electric CityAirbus NextGen is an eVTOL prototype equipped with fixed-wings, a V-shaped tail and eight electrically powered propellers as part of its distributed propulsion system. CityAirbus NextGen is being developed to fly with a 80km operational range and to reach a cruise speed of 120 km/h, making it perfectly suited for a variety of missions. Airbus is developing a UAM solution with eVTOLs not only to offer a new mobility service in urban areas and beyond but also as an important step in its quest to reduce emissions in aviation all over its product range.

PART 145

Willis Engine Repair Center (WERC)
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FINANCIAL NEWS

Embraer reports earnings results for fourth-quarter 2021 and fiscal year 2021

Embraer has released its fourth-quarter and full-year 2021 results. Embraer delivered 55 jets in the fourth quarter, of which 16 were commercial aircraft and 39 executive jets (26 light and 13 mid-size). In 2021, a total of 141 jets were delivered comprised of 48 commercial aircraft and 93 executive jets (62 light and 31 mid-size). Firm order backlog at the end of the fourth quarter was US\$17.0 billion. This is the highest quarter backlog since 2Q18, driven by solid order activity, particularly in the Executive & Commercial segments. Book to bill in excess 2:1 for Commercial and Executive. Revenues reached US\$1.3 billion in the quarter and US\$4.2 billion in 2021, in line with the company guidance for revenues of US\$4.0 – US\$4.5 billion. Adjusted EBIT and EBITDA margins for 2021 reached guidance of 3.0% – 4.0% and 8.5% – 9.5%, respectively driven by enterprise efficiencies, better prices and mix volumes from Commercial, Executive and Services & Support segments. Significant improvement in free cash flow (FCF) in the fourth-quarter 2021, with cash generation of US\$452.6 million, leading to full-year FCF of US\$292.4 million in 2021, surpassing FCF guidance of US\$100 million or better. Net Debt/EBITDA ratio decreased from 5.6x in 2019 to 3.5x in 2021, with strong FCF and EBITDA recovery. Guidance for 2022 (without Eve): commercial jet deliveries of 60-70 aircraft, executive jet deliveries of 100-110 aircraft, revenues in a range of US\$4.5 to US\$5.0 billion, Adjusted EBIT margin of 3.5% to 4.5%, Adjusted EBITDA margin of 8.0% to 9.0%, and free cash flow of US\$50 million or better for the year. (£1.00 = US\$1.31 at time of publication).

Lufthansa Technik has released its financial report for 2021

Lufthansa Technik has released its financial report for 2021 in which it has shown it has begun to shake off the effects of the pandemic-related aviation crisis. Through a combination of extensive restructuring and further development of its product portfolio the company was able to increase revenue by 7% to €4.003 billion (previous year: €3.747 billion) and again generated a clearly positive adjusted EBIT of €210 million (previous year: €-383 million). The company also attributes much of the successful turnaround to its RISE programme which was instigated in 2020 to streamline Lufthansa Technik to five principal business units instead of the existing

MILITARY AND DEFENCE

ATI Engineering Services orders four Cessna Grand Caravan EX aircraft for Tunisian Air Force



Cessna Special Mission Caravan

Photo: Textron Aviation

Textron Aviation has been awarded a contract by ATI Engineering Services for four Cessna Grand Caravan EX aircraft for the Tunisian Air Force. "The fleet of Grand Caravan EX single-engine turboprops will aid the Tunisian Air Force in intelligence, surveillance and reconnaissance operations in the country," said Bob Gibbs, Vice President, Special Mission Sales for Textron Aviation. "The aircraft is engineered for challenging missions, high payloads and short, unimproved runways, while delivering single-engine economy and simplicity. It is a perfect match for this mission throughout Africa." ATI Engineering Services will modify and equip the aircraft with an electro-optical/infrared sensor, operator console, tactical radio, video data link and night vision-compatible lighting. These are the first Cessna Grand Caravan EX aircraft for the Tunisian Air Force. Since 2014, the US Government has provided grant aid funding for 16 Grand Caravan EX aircraft procured through Foreign Military Sale cases throughout Africa, with Tunisia being the latest recipient. US Africa Command (AFRICOM) intent is to field multiple iterations of this configuration throughout Africa and to streamline logistics support and enhance partner nation interoperability, both of which is expected to reduce costs to the partner nation and to the US Government.

INFORMATION TECHNOLOGY

Romanian Oil & Gas operator **Vega Offshore** has chosen **Rusada's ENVISION** software to manage its airworthiness and maintenance operations and is now fully live on the system. Vega Offshore has a fleet of Airbus H155 Helicopters to provide services to the offshore Oil & Gas industry. From its bases in Constanta, Romania it operates passenger and cargo flights for producers, as well as medevac



Airbus H155 helicopter

Photo: Rusada

and search and rescue services if the need arises. Vega Offshore will use ENVISION to manage a number of different functions, including continuing airworthiness, maintenance planning and tracking and inventory management. Rusada's European client services team completed the project over the course of six months, during which time they configured process flows, trained staff and migrated over Vega's existing data. As a result, the operator is now up and running on ENVISION and is successfully using it for day-to-day operations.

FINANCIAL NEWS

eight, together with the sale or closure of maintenance and overhaul sites. Much of the profitability can also be put down to the extensive government aid provided, for example the short time working allowance in Germany. However, with an uptick in travel demand and a recovery in global air traffic, the maintenance sector of the business saw a strong increase in demand. The Aircraft Component Services business which depends heavily on the number of hours flown, saw significantly better capacity utilisation in its workshops. On the obverse side of the coin, there was only modest recovery in the engine business, primarily due to airlines taking advantage of 'green time' service life of parked engines in 2021 so they can avoid overhauls. Over the course of 2021, the sales organisation won 42 new customers and signed over 620 contracts with a total volume of €4.7 billion. Among the new customers were numerous start-up airlines, which Lufthansa Technik supports with extensive expertise in setting up their technical operations. At the end of the 2021 fiscal year, the company had exclusive contracts governing over 4,200 aircraft operated by more than 800 customers. (£1.00 = 1.19 at time of publication).

MILITARY AND DEFENCE

Pratt & Whitney to develop advanced engine in collaboration with Air Force Research Laboratory

The US Air Force Research Laboratory (AFRL) has awarded Pratt & Whitney a contract for a ground test demonstration programme for a novel architecture using a rotating engine detonation concept to be jointly executed by Pratt & Whitney, Raytheon Missiles & Defence and Raytheon Technologies Research Center. "Pratt & Whitney's GATORWORKS was able to complete initial concept development well ahead of schedule and we will continue leveraging our digital and agile capabilities to accelerate progress on this programme," said Dave Stagney, director of GATORWORKS. "Given the need for this critical engine technology, the Raytheon Technologies team will utilise its advanced resources and expertise to meet the technical objectives in an expeditious fashion." The AFRL programme office is a key partner enabling the joint Raytheon Technologies team to work in sprints to mitigate the highest risks for an advanced product while accelerating technology maturation. "AFRL is excited to work with Pratt & Whitney

OTHER NEWS

Boeing has been selected to provide **Etihad Airways** with the **Jeppesen** FliteDeck Advisor digital solution for the carrier's 787 Dreamliner fleet to optimise operational efficiency and reduce fuel consumption. Etihad has already uncovered benefits from the use of FliteDeck Advisor. During a trial on several of its 787 Dreamliners, the airline found that the digital solution delivered



Etihad Airways

Photo: Boeing

cruise fuel savings of 1.4%, saving an average of 350 kilograms of fuel and 1,100 kilograms of CO2 per flight. "We have been very pleased with the fuel and cost savings we have achieved with FliteDeck Advisor," said Sulaiman Yaqoobi, vice president of Flight Operations, Etihad Airways. "FliteDeck Advisor was tested as part of the Etihad Greenliner programme, and it is great to now see it deployed across the 787 fleet, helping Etihad achieve efficiency gains and reduce CO2 emissions." Since 2019, Boeing and Etihad have collaborated on sustainability efforts centred on the airline's 787 Dreamliner fleet, including on Etihad's participation in Boeing's ecoDemonstrator programme, where the FliteDeck Advisor solution was initially trialled. In 2021, the two companies renewed and expanded their sustainability alliance to focus on enhancing the efficiency of navigation and flight operations, airframe technologies and sustainable practices to reduce emissions. Jeppesen FliteDeck Advisor analyses airplane-specific performance metrics for all Boeing aircraft, including changes over time with aircraft age and maintenance action. The tool enables flight crews to make small, real-time adjustments to their course, altitude and speed to optimise fuel use and minimise the carbon footprint of each flight.



Captain Emma Bryson of Redmond, OR

Photo: Hillsboro Aero Academy

Alaska Airlines and its regional partner **Horizon Air** are teaming up with **Hillsboro Aero Academy**, a premier flight school in the Pacific Northwest, to launch the **Ascend Pilot Academy** (APA). This new development programme, designed for aspiring pilots, provides a simpler, more financially accessible path to becoming a commercial pilot at Horizon and eventually Alaska. The programme is part of a larger effort to

address a growing pilot shortage coupled with increased travel demand. In partnership with Hillsboro Aero, the two airlines will register and train up to 250 students a year. Once enrolled, cadet pilots will be eligible for low-interest financial aid, a US\$25,000 stipend to cover the cost of a commercial pilot license, mentorship and guidance from Alaska Airlines and Horizon Air pilots and a conditional job offer at Horizon Air, with an opportunity to fly with Alaska Airlines after meeting certain criteria. An industry-wide shortage of pilots has emerged during the pandemic. Over the past two years, thousands of pilots at major airlines took early retirement, accelerating a pilot shortage that was already on the horizon. In 2022 alone, mainline airlines are expected to hire more than 10,000 pilots – twice the amount hired in 2019. With 80% of these hires anticipated to be sourced from regional airlines like Horizon Air, a more robust talent pipeline is critical to maintaining operational efficiency and business growth. Combined, Alaska and Horizon estimate they will need to hire 500 pilots a year, or 2,000 by 2025. The Ascend Pilot Academy is one part of building that diverse talent pipeline.

MILITARY AND DEFENCE

to advance this novel and military relevant propulsion architecture. Pratt & Whitney has made considerable progress developing this concept to date and we look forward to successfully demonstrating this important technology in collaboration with the RTX team,” said Dr Michael Gregg, Director, Aerospace Directorate, AFRL. The engine is being designed to fly at higher Mach speeds which will enable and broaden future vehicle designs and applications and will be a key element of Pratt & Whitney’s high-speed engine portfolio to meet future customer requirements.

OTHER NEWS

WINGX and **Parapex Media** are officially launching a joint venture to provide their combined market intelligence on the global helicopter market. This venture combines the long-standing and deep expertise of Parapex, a leader in helicopter fleet ownership and deployment for over 20 years and the business insight platforms developed by WINGX across the global business jet fleets. By blending their relative capabilities, Parapex and WINGX aim to create and distribute valuable insights to stakeholders in the global helicopter business, including operators, sales and charter brokers, service providers and investors. Covering every civil-operated turbine helicopter in the Western world, the business insight is provided by a combination of graphs, maps, data tables and downloads. Each user can select from the flight activity data based on a wide combination of factors including country, type of operation, operator, aircraft type, engine type and many others. Richard Koe, MD of WINGX, said “We think this is a great opportunity to materialise the obvious synergies between our two businesses and good timing, given the emerging and exciting convergence of business aviation and next-gen short-haul and eVTOL operations”.

It has been announced that green hydrogen company **Fortescue Future Industries** (FFI) and **Airbus** have signed a Memorandum of Understanding (MoU) whereby the two companies will focus on the implementation of green hydrogen as a fuel within the aviation industry. The target is to see a green hydrogen-based aircraft enter into service by 2035. Unlike ordinary hydrogen currently being used for aircraft propulsion units, green hydrogen is made from water using 100% renewable electricity. Part of the work will focus on green hydrogen regulations, infrastructure and global supply chains –

OTHER NEWS



Photo: Flybondi

Flybondi, the low-cost airline from Argentina, has announced a new alliance with FLY CARGO — one of the leading cargo companies in the Argentine market with over 40 years of experience — to create Flybondi Cargas. This new business unit allows couriers, freight forwarders and businesses in the logistics sector to hire a low-cost service to carry their cargo, mail and packages to national destinations (and soon to international ones) using a top-quality service. Flybondi Cargas started to carry cargo onboard Boeing 737-800 NG aircraft of the Flybondi fleet in December. Deliveries are currently being made to all national destinations including the routes within provinces. Throughout the year, more frequencies, connections and routes will be added. “At Flybondi, we are constantly working to be able to provide more services to our customers. We are very happy with this new alliance, since it will allow both logistics companies and couriers to carry their cargo at an ultra-low cost using an efficient and safe service available nationwide,” expressed Federico Pastori, Chief Commercial Officer of Flybondi.



Photo: Hawaiian Airlines is recruiting for more than 600 positions

Hawaiian Airlines has launched a state-wide hiring campaign for hundreds of airport and operational positions, as well as administrative roles, to support the carrier’s growth as travel demand continues to improve. In addition to offering competitive pay, attractive medical and travel benefits, and paid training for full- and part-time positions, Hawai’i’s hometown airline is also providing sign-on bonuses for select roles and flexible work options for corporate team members. The airline is recruiting for more than 600 positions companywide, with 200 openings for aircraft mechanics, guest services, ramp and cargo agents at its airport spaces in Honolulu, Kahului, Maui, Lihue, Kaua’i and Kona, Island of Hawai’i. Hawaiian is also seeking Honolulu-based pilots, flight attendants and corporate team members as it prepares to welcome a new fleet of Boeing 787 aircraft and return to its international markets as border restrictions ease in key Hawai’i visitor markets in Asia and Oceania.

OTHER NEWS

from the production of green hydrogen, right through to its delivery to airports and transfer onto aircraft. According to the MoU, FFI will provide cost outlook and technology drivers on the various elements of the supply chain and will build infrastructure deployment scenarios for the supply of green hydrogen to targeted airports. Airbus will provide characteristics on fleet energy usage, scenarios for hydrogen demand in aviation, refuelling specifications and aviation regulatory framework. "The time is now for a green revolution in the aviation industry. This exciting collaboration brings together leaders in the aviation industry with leaders in green energy for a pollution-free future," said FFI founder and Chairman, Dr Andrew Forrest. Airbus Vice President of Zero Emissions Aircraft Glenn Llewellyn said, "the future of air travel is green," adding that "Airbus has identified green hydrogen as the most promising option for decarbonisation to meet our environmental challenges. You heard it here first: We are starting the green aviation revolution."

INDUSTRY PEOPLE



Hendrik Falk

• Chapman Freeborn, the global air charter specialist and part of Avia Solutions Group, has appointed **Hendrik Falk** as Senior Vice President of Cargo for the Americas. Born in Germany, Falk spent the majority of his youth in the United States of America. After receiving a bachelor's degree in International Economics from UCLA, he began his 32-year career in the aviation industry at Lufthansa Cargo in Atlanta. Since then, he has held a number of senior positions at leading industry organisations around the globe, including Polar Air Cargo, World Airways, Air Bridge Cargo and most recently Swiss International Airlines. The Chapman Freeborn group was established in the UK in 1973. The company has offices worldwide including North America, Europe, Africa, Russia, Asia and Australia. In the cargo market, Chapman Freeborn Air Chartering specialises in the charter and lease of aircraft for a wide-ranging customer base, including freight forwarders, multinational corporations, governments, humanitarian agencies and a host of industries around the globe.



Dirk Hoke

• **Dirk Hoke**, former CEO of Airbus Defence & Space, has been named as Chief Executive Officer and Managing Director of Volocopter, the pioneer of urban air mobility (UAM) by the company's Advisory Board, starting September 2022. He will follow **Florian Reuter**, who has led Volocopter from a five-person start-up to a 500-strong global company with unicorn status over the past seven years. Hoke brings extensive experience in leading big tech entities within Airbus and Siemens from a technical, strategic and commercial side. His strong track record in transformation and digitalisation made him the candidate of choice. Volocopter makes the dream of electric flight in cities come true and aims to be the first UAM developer to go to market.



Pablo von Siebenthal

• **Pablo von Siebenthal** has been appointed to the newly created position of Global Head of Mergers & Acquisitions. Joining from Kuehne+Nagel, he will assume overall responsibility for the execution of Swissport's new global acquisition strategy, which is a key pillar in the company's ambitious post-COVID expansion plans. Von Siebenthal will join Swissport on April 1, from global transport and logistics company Kuehne+Nagel, where he has held the position of Global Head of M&A since 2018. In the newly created role as Global Head of Mergers & Acquisitions, he will report to **Iván Nash Vila**, Chief Financial Officer of Swissport International AG.



France Caissy and Patrick Ramsey

• JMC Group, a trusted provider of aviation manpower and engineering services, headquartered in South-west UK, is strengthening its North American activity, having launched

in Canada in June 2021. Experienced Recruiter **Patrick Ramsey** joins the business in Montreal, bringing nearly five years of experience as a Senior Recruiter. Ramsey previously managed a team of recruiters supporting clients in Canada, the USA and Mexico. Customers included major global aircraft manufacturers and suppliers. He will be working with **France Caissy**, who leads JMC Group in the region. JMC Group founded in 2008, is a trusted global provider of recruitment and engineering services to the aviation and aerospace industries. It supplies fixed price, permanent and contract candidates to a portfolio of airlines, OEMs, MROs, leasing and asset management companies and component overhaul organisations. Headquartered at Exeter Airport, UK, with complementary bases in London Stansted, Canada, Malta, Budapest and Sofia, it is managed by highly experienced professionals with expertise in civil and military aviation, as well as the recruitment sector.

AviTRADER™
publications

AviTrader Publications Corp.
Suite 305, South Tower
5811 Cooney Road
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Canada V6X 3M1

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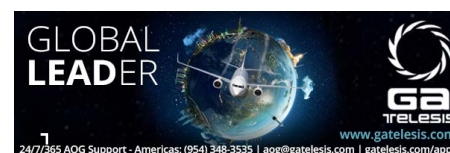
THE AIRCRAFT AND ENGINE MARKETPLACE

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
A319-100	ORIX Aviation	CFM56-5B5/3	5018	2012	Now	Sale / Lease	Oisín Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A319-112	Deucalion Aviation Limited	CFM56-5B63	3586	2008	Q2/2022	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	Q2/2022	Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
A320	Deucalion Aviation Limited	CFM56-5B4/P	1571	2001	Now	Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
A320-200	BBAM	V2527-A5	2587	2005	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
A320-232	Deucalion Aviation Limited	V2527	4323	2010	Now	Sale / Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
A320-232	ALTAVAIR	V2527-A5	4621	2011	Now	Sale / Lease	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493
A320-232	Willis Lease	V2527-A5	6865	2016	Now	Sale / Lease	Chris Giles	cgiles@willislease.com	+44 1656 754 788
A320-232	Willis Lease	V2527-A5	7163	2016	Now	Sale / Lease	Chris Giles	cgiles@willislease.com	+44 1656 754 788
A320-233ceo	FPG Amentum	V2527E-A5	4457	2010	Now	Sale / Lease	Lei Ma	ma.lei@fpg-amentum.aero	+852 9199 1875
A321-200	GA Telesis	V2533-A5	2255	2004	Q2/2022		David Byrne	aircraft@gatelesis.com	+353 86 780 8974
A321-200	GA Telesis	V2533-A5	2261	2004	Q2/2022		David Byrne	aircraft@gatelesis.com	+353 86 780 8974
A321-231	Deucalion Aviation Limited	V2533-A5	6009	2014	Now	Sale / Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
A321-231	Deucalion Aviation Limited	V2533-A5	6294	2014	Now	Sale / Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
A330-200	ORIX Aviation	Trent 772B-60	1306	2012	Now	Sale / Lease	Oisín Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A330-200	ORIX Aviation	Trent 772B-60/16	1289	2012	Now	Sale / Lease	Oisín Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A330-200	Deucalion Aviation Limited	CF6-80E	814	2007	Now	Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
A330-200 (5x)	ALTAVAIR	Trent 772B-60/16	various	06-14	Q1/2022	Sale / Lease	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493
A330-300	ALTAVAIR	CF6-80E1A3	1580	2014	Q1/2023	Sale / Lease	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493
A330-200	Doric	Trent 772B-60/16	1407	2013	Now	Sale / Lease	Maurick Groeneveld	maurick.groeneveld@doric.com	+49 (0)69 247559931
A330-300	BBAM	Trent 772B-60	1562	2014	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	CF6-80E1A3	1300	2012	Apr 2022	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
A330-300	Deucalion Aviation Limited	Trent 772B-60	1559	2014	Now	Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
A330-300	Deucalion Aviation Limited	Trent 772B-6	1146	2010	Q3/2022	Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
A330-300	Deucalion Aviation Limited	Trent 772B-60	1482	2014	Now	Sale / Lease	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
B737-8	Orix Aviation	CFM LEAP-1B	42825	2017	Q1/2022	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-8	Orix Aviation	CFM LEAP-1B	42826	2017	Q1/2022	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-8	Orix Aviation	CFM LEAP-1B	42827	2017	Q1/2022	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-8	Orix Aviation	CFM LEAP-1B	42828	2017	Q1/2022	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-8	Orix Aviation	CFM LEAP-1B	42829	2017	Q1/2022	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-8	Orix Aviation	CFM LEAP-1B	42830	2017	Q1/2022	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-8	Orix Aviation	CFM LEAP-1B	42831	2018	Q1/2022	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-8	Orix Aviation	CFM LEAP-1B	42832	2018	Q1/2022	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-8	Orix Aviation	CFM LEAP-1B	42833	2018	Q1/2022	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-8	Orix Aviation	CFM LEAP-1B	42835	2018	Q1/2022	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-8	Orix Aviation	CFM LEAP-1B	63971	2018	Q1/2022	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-8	Orix Aviation	CFM LEAP-1B	64992	2018	Q1/2022	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-800	BBAM	CFM56-7B24/3	34905	2007	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B737-800	ORIX Aviation	CFM56-7B24E	40318	2012	Q2/2022	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-800SF	GA Telesis	CFM56-7B24	33003	2002	Q2/2022	Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451



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THE AIRCRAFT AND ENGINE MARKETPLACE

Commercial Jet Aircraft (cont.)

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B737-900	BBAM	CFM56-7B26/3	34953	2007	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B777-200ER	BBAM	GE90-90B	29004	1998	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B777-200ER	Deucalion Aviation Limited	GE90-94B	32721	2007	Q2/2023	Sale / Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
B777-200ER	Deucalion Aviation Limited	GE90-94B	35295	2007	Q2/2023	Sale / Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
B777-300ER	BBAM	GE90-115BL2	37898	2012	Apr 2022	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B777-300ER (8x)	ALTAVAIR	GE90-115B		06-13	Q1/2022	Sale / Lease	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493

Regional Jet / Turboprop Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
CRJ-200	Regional One	CF34-3B1	7925	2004	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ-200	Regional One	CF34-3B1	7926	2004	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ-200	Regional One	CF34-3B1	7937	2004	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ-200	Regional One	CF34-3B1	7941	2006	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ-200ER	Regional One	CF34-3B1	8062	2006	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ-200ER	Regional One	CF34-3B1	8059	2005	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ-200LR	Regional One	CF34-3B1	7625	2002	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ900	Regional One	CF34-8C5	15215	2009	Now	Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ900	Regional One	CF34-8C5	15207	2008	Now	Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ900ER	Regional One	CF34-8C5	15111	2007	Now	Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ900ER	Regional One	CF34-8C5	15115	2007	Now	Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
DHC8-Q400	Regional One	PW150A	4042	2001	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
DHC8-Q400	Regional One	PW150A	4100	2005	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
ERJ-145LR	Regional One	AE3007	145508	2001	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
ERJ-145LR	Regional One	AE3007	145515	2001	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
ERJ170-100LR	Regional One	CF34-8E5	17000093	2005	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
SAAB 2000	Jetstream Aviation Capital	AE2100A	031	1996	Now	Sale / Lease	Donald Kamenz	dkamenz@jetstreamavcap.com	+1 (305) 447-1920 x 115
SAAB 340B CRG	Jetstream Aviation Capital	CT7-9B	224	1990	Nbow	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
CF34-10E		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				
(5) CF34-10E		Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(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
(1) CF6-80E1A4B	Now - Sale / Lease	GA Telesis		engines@gatelesis.com	
(1) CF6-80E1A3	Now - Lease	BBAM	Steve Zissis	info@bbam.com	+1 787 665 7039
(2) CF6-80E	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) CF6-80C2B1F	Now - Sale/Exchange	Chromalloy Asset Management	Hema Krishan	Hkrishan@chromalloy.com	+1 845-587-7102
(1) CF6-80C2B1F	Q3/2021 - Sale/Exchange				
(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) CFM56-5B4/P (full QEC)	Now - Lease	FTAI Aviation LLC	Tom McFarland	tmcfarland@ftaaviation.com	+1 786 785 0787
(1) CFM56-5B5/P	Now - Lease				
(1) CFM56-5B6/P	Now - Lease				
(1) CFM56-5B2/P	Now - Lease				
(2) CFM56-7B26 (full QEC)	Now - Lease				
(1) CFM56-7B24	Now - Lease				
(5) CFM56-7B24/3	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(6) CFM56-5B4/3	Now - Lease				
(1) CFM56-5C4/P	Now - Lease				
(4) CFM56-7B24/E	Now - Lease				
(2) CFM56-7B24	Now - Lease				
(2) CFM56-7B26	Now - Lease				
(1) CFM56-7B26E	Now - Lease				
(1) CFM56-5C4	Now - Lease				
(6) CFM56-5B4/P	Now - Lease				
(2) CFM56-7B26/3	Now - Lease				
(3) CFM56-7B26	Now - Sale / Lease	BBAM	Steve Zissis	info@bbam.com	+1 787 665 7039
(4) CFM56-5B5/P	Now - Sale / Lease				
(2) CFM56-5B6	Now - Sale / Lease				
CFM56-5 (all thrust levels)	Now - Sale / Lease	Contrail Aviation Support	Steve Williamson	steve@contrail.com	+1 720-276-5966
CFM56-7 (all thrust levels)	Now - Sale / Lease				
(2) CFM56-7B22	Now - Lease	Deucalion Aviation Limited	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
(multiple) CFM56-5B	Now - Sale / Lease	CFM Materials	Josef Noebauer	josef.noebauer@cfmmaterials.com	+1 469-628-3756
(multiple) CFM56-7B	Now - Sale / Lease				
(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) CFM56-5B4/P	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
(2) LEAP-1A33	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) LEAP-1A32	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	Stuart MacGregor	Stuart.macgregor@castlelake.com	+44 207 190 6138
(1) PW4062-3	Now - Sale / Exchange	Chromalloy Asset Management	Hema Krishan	Hkrishan@chromalloy.com	+1 845-587-7102
(1) PW4060-3	Q3/2021 - Sale/Exchange				
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
(2) PW150A	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	leasing@willislease.com	+1 (561) 349-8950
(7) 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	Q1/2022 - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	RRPF Marketing	RRPFMarketing@rolls-royce.com	+44 7528975877
(2) Trent 772C-60	Q1/2022 - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	RRPF Marketing	RRPFMarketing@rolls-royce.com	+44 7528975877
(1) Trent 556-60	Now - Sale/Lease/Exch.				
(1) Trent 772B-60	Now - Lease	BBAM	Steve Zissis	info@bbam.com	+1 787 665 7039
(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
(3) V2522-A5	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	RRPF Marketing	RRPFMarketing@rolls-royce.com	+44 7528975877
(3) V2524-A5	Now - Sale/Lease/Exch.				
(3) V2527-A5	Now - Sale/Lease/Exch.				
(3) V2527E-A5	Now - Sale/Lease/Exch.				
(3) V2527M-A5	Now - Sale/Lease/Exch.				
(3) V2530-A5	Now - Sale/Lease/Exch.				
(2) V2533-A5	Now - Sale/Lease/Exch.				
V2500 (all thrust levels)	Now - Sale / Lease	Contrail Aviation Support	Steve Williamson	steve@contrail.com	+1 720-276-5966
(2) V2533-A5	Now - Sale/Lease/Exch.	Chromalloy Material Solutions	Hema Krishan	Hkrishan@chromalloy.com	+1 845-587-7102
(1) V2527-A5	Now - Sale/Lease/Exch.				
(2) V2533-A5	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(2) V2527-A5	Now - Lease				
(2) V2527-A5	Now - Lease	BBAM	Steve Zissis	info@bbam.com	+1 787 665 7039
(2) V2527-A5	Now - Sale / Lease	Castlelake	Stuart MacGregor	Stuart.macgregor@castlelake.com	+44 207 190 6138
(1) V2533-A5	Now - Lease	FTAI Aviation LLC	Tom McFarland	tmcfarland@ftaiair.com	+1 786 785 0788
(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				
(1) 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					
GE90-115B – Fan Stator Module – P/N 2115M15G04		Altavair	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493
(2) A320, (1) A330, (1) A340 Landing Gear Shipsets		GA Telesis		landinggearsales@gatelesis.com	
(1) A320 ENH NLG					
Neutral CFM56-7B QEC Kit	Now - Sale	CFM Materials	Josef Noebauer	josef.noebauer@cfmmaterials.com	+1-214-988-6676
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) GTC331-9B, (1) GTC331-9A	Now - Sale/Lease/Exch.	BBAM	Steve Zissis	info@bbam.com	+1 787 665 7039
(1) GTC331-500B	Now - Sale/Lease/Exch.				
(2) GTC331-350, (2) APS2300	Now - Sale / Lease	DASI	Chris Glascock	chris.glascock@dasi.com	+1 954-801-3592
(1) APS3200, (1) GTC331-9B					
((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) GTC331-9A, (1) GTC331-200, (2) GTC331-9B, (1) GTC331-200		GA Telesis	Jay Meshay	apu@gatelesis.com	+1-954-849-3509
(2) GTC331-350, (2) GTC331-500, (1) APS3200B, (2) APS3200C					
Engine stands: CF6-80C2, CFM56-3, CFM56-5A/B/C, PW4000			Ricky Torres	stands@gatelesis.com	+1-954-676-3111
(2) APU GTC331-9B	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