

# Weekly Aviation Headline News

## WORLD NEWS

### **Qatar Airways signs codeshare with Air Malta**

The codeshare agreement increases Malta's connectivity with the Middle East, Africa, Asia and Australia, by enabling Air Malta's passengers to travel on Qatar Airways' flights to Doha and onwards to more than 170 destinations. Qatar Airways' passengers will also benefit from greater access to Malta and to Air Malta's extensive Mediterranean network. Codeshare destinations include Cagliari, Palermo and Catania. The first codeshare flights to operate from 9 March 2020.

### **British Airways enhances NDC commitment**

British Airways is strengthening its New Distribution Capability (NDC) platform with significant new initiatives which will enable agents to better integrate and manage NDC in the operational environment. The initiatives will accelerate the benefits available to customers who book through NDC enabled travel agents. The latest changes will drive the airline closer to achieving IATA's goal of 20 per cent of indirect bookings through NDC APIs by the end of 2020. British Airways has already exceeded this target in the UK.

### **Virgin Atlantic adds new capacity to India**

Virgin Atlantic will begin a new service linking Manchester in the UK and Delhi in India. Starting on 26<sup>th</sup> October 2020 the airline will operate three A330-200 flights thrice weekly as part of its growing commitment to the Indian market. Last October, Virgin Atlantic commenced daily Heathrow-Mumbai services and, on 29<sup>th</sup> March, will introduce double daily flights to Delhi from Heathrow.



Heathrow's third runway faces new challenges.

Photo:  
Heathrow Airport

## **UK court rules against Heathrow third runway** Aviation industry reacts to expansion saga

In a victory for climate campaigners, the Court of Appeal in the UK determined that the Secretary of State acted unlawfully in failing to take into account the 2015 Paris Agreement on Climate Change when deciding to designate the Airports National Policy Statement in support of the expansion of Heathrow Airport.

The news has generated a flood of responses from the UK and international aviation bodies. The International Air Transport Association (IATA) reacted to the Court of Appeal's decision to

block Heathrow expansion on the grounds of incompatibility with the Paris Climate Agreement – "The Court's decision to throw further uncertainty on the development

**"We will appeal to the Supreme Court on this one issue and are confident that we will be successful."**

*Heathrow Airport*

of vital air capacity for the UK threatens tremendous damage to the UK economy. Our aim should be to eliminate carbon, not travel, and the UK aviation industry has already committed to a net-zero target for aviation carbon emissions." IATA stated.

Also, GMB, the union for airport workers, responded to the court ruling. Nadine Houghton, GMB National Officer, said: "GMB is disappointed by the court ruling. "Heathrow expansion is a complicated issue, but we have consistently backed it because the benefits more than outweigh any

risks. Expansion would protect the existing 80,000 jobs, create a further 114,000 - as well as 10,000 apprenticeships. Like everyone else, GMB members are very worried about climate change, but we would have held Heathrow

*Continued on page 3*



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Airport's feet to the fire on their target for zero carbon by the mid-2030s. The Government must now come up with a proper aviation strategy for the UK – and unions must be front and centre in those discussions.”

In response a Heathrow spokesperson said: “The Court of Appeal dismissed all appeals against the government - including on noise and air quality - apart from one which is eminently fixable. We will appeal to the Supreme Court on this one issue and are confident that

we will be successful. In the meantime, we are ready to work with the Government to fix the issue that the court has raised. Heathrow has taken a lead in getting the UK aviation sector to commit to a plan to get to net zero emissions by 2050, in line with the Paris Accord. Expanding Heathrow, Britain's biggest port and only hub, is essential to achieving the Prime Minister's vision of global Britain. We will get it done the right way, without jeopardising the planet's future.”

## AIRCRAFT & ENGINE NEWS

### ST Engineering's joint venture announces securitization of 30 aircraft engines

ST Engineering has released that Total Engine Asset Management (TEAM), an engine leasing joint venture of its Aerospace arm, has entered into agreements for the sale of 30 aircraft engines using a securitization structure. This sale will enable the group to free up capital for future investments including aircraft engines and reduce TEAM's capital employed. The transaction comprises a diversified portfolio of 30 aircraft engines that power primarily narrow-body aircraft leased to 13 airlines across 11 countries, with a weighted average remaining lease term of about six years. The structure includes about US\$257 million (approximately S\$358 million) of fixed rate notes offered in three tranches and the placement of equity notes. It is anticipated that TEAM will retain 10% of the equity notes while an affiliate of Marubeni Corporation and one or more other investors will purchase the balance, subject to the satisfaction of customary closing and settlement conditions.

### Elix Aviation Capital delivers one Bombardier Dash 8 Q200 to Safarilink

Elix Aviation Capital has delivered one Bombardier Dash 8 Q200 aircraft, MSN 510, on lease to Safarilink of Kenya. This is the second aircraft delivery for Safarilink from Elix.

### Boost for Boeing as ANA places order for 15 787 Dreamliners worth US\$5 billion



ANA will add 15 Dreamliners to its fleet

Photo: AirTeamImages

Having failed for the first time in many years to secure any orders in the month of January, Boeing has confirmed that Japan's ANA Holdings Inc (ANA) has placed an order for 15 more 787 Dreamliners worth an estimated US\$5 billion at list price. However, the news is not so good for Roll-Royce who had been the engine supplier for previous Dreamliners delivered to ANA. This time the Japanese carrier has opted for General Electric engines to power the latest jets which will comprise 11 787-10 stretch versions and four shorter 787-9s, with options for a further five 787-9s. The change is likely as a result of extra inspections required by the Rolls-Royce engines in 2018 which forced ANA to cancel hundreds of flights. “As the 787 becomes a larger share of our fleet size, we have made the decision to diversify some of the components to minimize single source risks,” an ANA spokeswoman said. In a separate filing, ANA confirmed 12 of the 15 aircraft on firm order would be purchased directly from Boeing and the remaining three from a subsidiary of Japanese trading house Sojitz Corp. In a news release issued by ANA on Tuesday, ANA advised that the first delivery will be in the business year beginning April 2022. ANA was the 787 launch customer and is the world's biggest operator of the plane; this latest order bringing total purchases to 98, with 71 of the jets currently in operation.

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## AIRCRAFT & ENGINE NEWS

### First GTF engine produced in Japan completes maiden flight

Mitsubishi Aircraft Corporation, an MHI Group company, has completed its maiden

flight with the first Pratt & Whitney GTF™ PW1200G engine, assembled in Japan. The flight was completed in the United States at the company's Flight Test Center in Moses Lake, WA, and was performed by the company's Flight Test Aircraft 1 (FTA1). With the success of this flight, Mitsubishi Aircraft and Mitsubishi Heavy Industries Aero Engines, (MHIAEL) marked an

important milestone for the development of the commercial aviation business in Japan. "This is the first flight with an engine completed in Japan, and represents an important milestone for Mitsubishi Aircraft, our SpaceJet family of aircraft, and the further development of the aerospace cluster in Japan," said Mitsubishi Aircraft President Hisakazu Mizutani.



Jordan Aviation

Photo: AirTeamImages

### Aergo Capital delivers one Airbus A330-200 to Jordan Aviation

Aergo Capital (Aergo) has completed the delivery of one Airbus A330-200 aircraft, bearing manufacturer's serial number 834, to Jordan Aviation. The aircraft, which is owned by an affiliate of METAL 2017-1, was previously on lease to Shaheen Air. Fred Browne, Chief Executive Officer of Aergo, commented: "The delivery of this aircraft to Jordan Aviation is evidence of Aergo's commitment to supporting growth in this region and our team are delighted to have formed a relationship with the airline."

### AerCap signs lease agreement with Belavia Airlines for three Embraer E195-E2 aircraft

AerCap has signed an agreement with Belavia – Belarusian Airlines for the lease of three new Embraer E195-E2 aircraft. The aircraft are from AerCap's order book with Embraer. The first aircraft is scheduled to deliver in December 2020, with the remaining two aircraft delivering in March and April 2021. AerCap was the launch lessor customer of Embraer's E-Jets E2 and has a total of 50 Embraer E190-E2s and E195-E2s owned and on order.



Belavia Airlines and AerCap have signed lease agreements for three Embraer E195-E2 aircraft

Photo: AerCap



Ceremonial steel beam signing at the Fort Worth MRO announcement

Photo: Gulfstream

### Gulfstream to expand in Dallas-Fort Worth area

Gulfstream Aerospace will expand its operations in the Dallas-Fort Worth metropolitan area with the construction of a service center at Fort Worth Alliance Airport. The facility, which will complement Gulfstream's presence at Dallas Love Field, is expected to open by the fall of 2021 and will create approximately 50 new jobs. To help meet the needs of its growing customer fleet, Gulfstream will invest more than US\$35 million to build a nearly 160,000-ft<sup>2</sup> / 14,864-m<sup>2</sup> maintenance, repair and overhaul facility at Alliance. The building will include hangar space, back shops and employee and customer offices. Groundbreaking is scheduled for the third quarter of 2020. Approximately 150 to 200 of Gulfstream's 230 Customer Support employees at Love Field are expected to relocate to Alliance, about 35 miles away, while about 30 to 80 employees will remain at Love Field to continue to provide on-site and transient operators with maintenance and service. Gulfstream's mid-cabin aircraft completions business in Dallas, which includes about 350 employees and five hangars, will remain at Love Field.

## MRO & PRODUCTION NEWS



Airbus A330-300

Photo: Air Canada

### AAR signs Lol with Air Canada to add new aircraft types and establish airframe maintenance Center of Excellence

AAR Aircraft Services Trois-Rivières ULC (AAR) has entered into a letter of intent with Air Canada regarding a ten-year, renewable agreement for airframe maintenance. This long-term agreement should enable AAR to develop an Airframe Maintenance Center of Excellence at its Trois-Rivières MRO in Quebec, Canada and to expand its heavy maintenance services for Air Canada, which will stimulate new investment in aerospace and create more high-quality aircraft mechanic jobs. The larger combined Airbus A330 fleet of Air Canada and Air Transat would allow Air Canada to move wide-body A330 maintenance work for both airlines from abroad to AAR in Trois-Rivières, in addition to maintaining and expanding AAR's airframe maintenance work in Quebec on the A320 family,

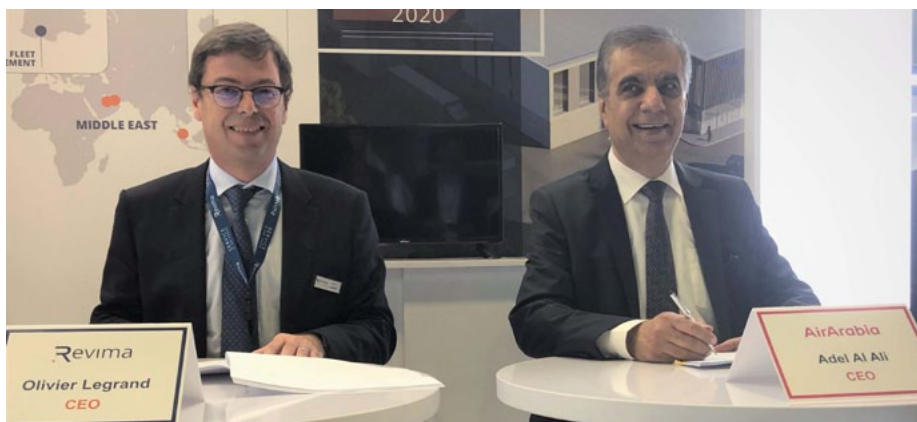
including all new A321XLR aircraft. AAR currently performs airframe maintenance work in Trois-Rivières on Air Canada's existing A320 fleet and E175 fleet (which is being phased out). The letter of intent is subject to completion of the Transat A.T. merger by Air Canada, requisite Board of Directors' approvals and completion of final agreements, including terms generally applicable to large-scale airframe maintenance agreements. AAR intends to make necessary facility infrastructure investments in Trois-Rivières to develop a Center of Excellence and accommodate the new wide-body A330 work of the combined Air Canada and Air Transat fleet. Through this agreement, it is expected that incremental aerospace jobs will be created in Trois-Rivières and AAR's new capabilities will attract airframe maintenance work from other A330 operators.

### EngineStands24 signs engine stand maintenance agreement with Rhinestahl CTS

EngineStands24, a subsidiary of Magnetic MRO, and Rhinestahl CTS, authorized provider of aviation and gas turbine engine tooling to GE, CFM and Rolls-Royce, have signed an engine stand service agreement, covering the maintenance service of EngineStands24 stands pool for all the company's global hubs. According to the agreement, Rhinestahl CTS will be responsible for managing the entire engine stand fleet including LEAP, CFM56, CF6 and CF34 engines and will ensure its readiness. The agreement covers service in all of the hubs, including Amsterdam, Dubai and Guangzhou, making Rhinestahl CTS an exclusive engine stands maintenance service provider for Magnetic MRO.



Photo: EngineStands24, Rhinestahl CTS contract signing during the MRO Middle East exhibition



Revima and Air Arabia contract signing

Photo: Revima

### Air Arabia awards A320 landing gear MRO contract to Revima

Revima, the independent landing gear and APU MRO, has signed a six-year contract with low-cost carrier Air Arabia, for the full support of its A320 landing gears, totaling 40 shipsets for the period. The MRO work will be provided by Revima's facility located in Normandy, France. Revima has been operating its A320 landing gear repair shop for several years, with a world-class dedicated customer service.

## MRO & PRODUCTION NEWS



Emirates Airbus A380

Photo: Emirates

### Emirates and Spairliners sign GTA for component support of Emirates' A380 fleet

Emirates and Spairliners have signed a General Terms Agreement (GTA) to provide component aftermarket solutions for Emirates' A380 fleet. Ammar Al-Zaben, Emirates' Vice President Procurement Aircraft, added: "Component support for any aircraft is critical. But the complexity is multiplied many times over when it's for the largest passenger aircraft – the A380s, and specifically for us, as we are its largest operator. Our association with Spairliners will further strengthen the support, service and reliability for our A380s, the flagship of our fleet, which will translate to optimized operations and a better customer experience."

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## MRO & PRODUCTION NEWS

### C&L Aerospace purchases ATR inventory from Intertrade

C&L Aerospace has purchased a package of ATR inventory from Intertrade. As part of the transaction, C&L has acquired over 1,400-line items to be added to its existing ATR inventory. All parts from the program are now stocked in C&L's U.K. and Bangor, ME, U.S. warehouses. Parts from the purchase will bolster existing inventory and be used to support C&L's robust ATR support programs by offering items ranging from new and overhauled, serviceable and repaired condition.

### Columbia Manufacturing Receives AS9110 certification

Columbia Manufacturing (CMI), a privately held manufacturer and supplier of precision components for turbine engines, has received AS9110 quality management system certification by NSF International Strategic Registrations (NFS-ISR). AS9110 is a widely adopted quality management system standard within the aerospace industry for FAA repair stations and other MRO suppliers. Criteria is designed to meet the highest industry standards specific to commercial, private, and military aircraft maintenance. Certification entails a rigorous two-stage process that thoroughly examines and evaluates an organization's quality system through on-site inspections and comprehensive audits. The Scope of Registration includes Maintenance, Repair, and Overhaul of precision machined parts and sheet metal fabrication for the aerospace industry. Special processes include non-conventional machining, welding, brazing, heat treating, and non-destructive testing. Certification was issued on February 11, 2020 and is valid for three years with annual surveillance audits.

### Elbe Flugzeugwerke achieves STC for A321 Freighter conversion

Elbe Flugzeugwerke (EFW), the joint venture of ST Engineering and Airbus, has received supplemental type certification for its A321 Passenger-to-Freighter (P2F) conversion from the European Union Aviation Safety Agency (EASA). The Supplement Type Certificate (STC) comes one month after the prototype unit, to be redelivered to launch customer Vallair, made its maiden flight test on January 22. As the STC holder, EFW is responsible for customer support services as well as the adaption engineering in the serial phase. Within the setup of the joint venture, EFW is furthermore taking care of the overall Program Management, Marketing and Sales and the subcontracting of conversions to the lines in Singapore, China, the U.S. and

### Honeywell expands maintenance and connectivity services in Central Europe



Photo: Honeywell business jet maintenance

Honeywell has added Lithuania-based Jet Maintenance Solutions to its business and general aviation Channel Partner program. Under the agreement, Jet Maintenance Solutions will provide Honeywell's leading maintenance services and connectivity solutions for Central European customers. As Honeywell's third authorized service center in the region, the agreement will expand maintenance location options for Honeywell customers, saving them precious time and money. Jet Maintenance Solutions offers base and line maintenance services for various Hawker Beechcraft aircraft, including the 700, 800, and 900 models, and their related variants; the Bombardier CRJ 100, 200 and 440; Bombardier Challenger 604, 605 and 850; and Bombardier Global 5000 and 6000 aircraft. Before this agreement, Honeywell customers using these platforms had to travel to Western Europe for maintenance service and support.

### King Aerospace growth continues



King Aerospace BBJ

Photo: King Aerospace BBJ

King Aerospace completed routine maintenance, avionics, paint and interior refurbishment on 40 Boeing Business Jets (BBJs), Boeing 737s and Boeing 757s and 45 of corporate aircraft last year at its facilities in Ardmore, OK. In 2018, it completed work on 29 Boeing aircraft and 44 corporate aircraft. King Aerospace's Ardmore facility includes four hangars offering 200,000 ft<sup>2</sup> of space. In addition to VVIP and corporate aircraft, it also provides depot services for military and government aircraft.

## MRO & PRODUCTION NEWS

Germany. The program, launched in 2015, is the result of a collaboration between ST Engineering, Airbus and EFW. ST Engineering is responsible for the engineering development phase, up to obtaining the STC from EASA and U.S. Federal Aviation Administration. Airbus contributes to the program with Original Equipment Manufacturer (OEM) data and certification support, on-board computer development, airframe engineering, flight-physics and flight-testing expertise. This is the exclusive A321P2F program whereby Airbus contributes with OEM data and certification support.

### Malaysia Airlines collaborates with REVIMA to provide landing gear services

Malaysia Airlines Berhad (MAB) will be collaborating with Maintenance, Repair and Overhaul (MRO) solutions provider REVIMA, specialized in APU and landing gear solutions. REVIMA has over 60 years expertise in MRO with major industry players and has recently extended its footprint in the Asia Pacific region via its newly constructed state-of-the-art landing gear overhaul facility in Chonburi, Thailand. Both companies will work together in providing a one-stop-service center on landing gear replacement and overhaul solutions to third-party customers. This will enable Malaysia Airlines to provide landing gear replacement services for REVIMA customers at its KUL Hangar. Likewise, REVIMA will be supporting landing gear overhauls for MAB customers at any one of its facilities, in addition to offering its customers landing gear replacement packages with Malaysia Airlines. REVIMA will also provide technical and training support for fleet landing gear replacements, including knowledge sharing on best practices and facility benchmarking for Malaysia Airlines, allowing competencies and capabilities enhancements. Both parties will also have a role in marketing and promoting their joint services to IATA 3 operators within the Asia Pacific region. Through this, Malaysia Airlines hopes to grow its share in the Asia Pacific MRO market, as well as promote the services to fellow operators. REVIMA, on the other hand, will be able to leverage on Malaysia Airlines' experience in airframe maintenance, as well as landing gear replacement experience for both narrow-body and wide-body aircraft.

## FINANCIAL NEWS

### DB Schenker new investor at Volocopter

Volocopter and DB Schenker have reported an investment by the global logistics service provider into the pioneer of Urban Air Mobility

### EL AL signs PBH contract with AJW Group



EL AL and AJW contract signing in Tel Aviv

Photo: AJW

AJW Group, an independent specialist in the global management of aircraft spares, has won a long-term power-by-the-hour (PBH) contract with Israeli carrier, EL AL Israel Airlines (EL AL). The PBH support will cover EL AL's fleet of 26 Boeing 737 Next Generation aircraft via AJW inventory hubs in the U.K., Germany, Israel, as well as at other key European line stations in the EL AL network. The contract marks an extension of AJW's relationship with EL AL, which has seen many years of ad hoc work to-date. By utilizing AJW's PBH offering, EL AL will have access to aircraft parts and AJW Technique's repair facility, which will be supporting the repair of EL AL components across multiple ATA chapters including avionics, fuel, hydraulics and pneumatics.

## MILITARY AND DEFENCE

### Sikorsky to build six production VH-92A Presidential Helicopters



VH-92A Presidential Helicopter

Photo: Sikorsky

Sikorsky will build six production VH-92A® Presidential Helicopters under a contract from the U.S. Navy. These helicopters are part of the 23 aircraft program of record for the U.S. Marine Corps. Under the terms of the contract, known as Low Rate Initial Production (LRIP) Lot II, Sikorsky will begin deliveries of six VH-92A helicopters in 2022. The remaining production aircraft will be delivered in 2022 and 2023. The VH-92A test aircraft at Patuxent River, Maryland, have proven their production readiness by undergoing rigorous U.S. government testing and operational assessments, including more than 1,000 flight test hours establishing the aircraft's technical maturity and readiness of its mission systems.

## FINANCIAL NEWS

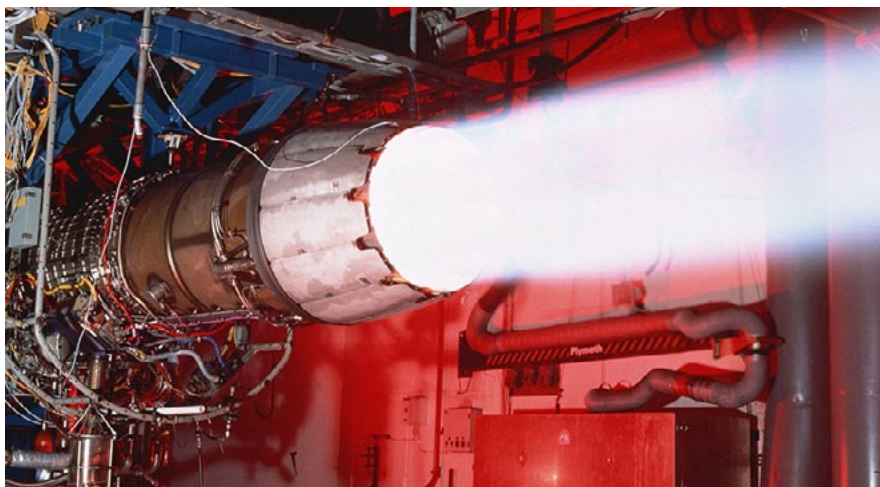
(UAM) as Volocopter extends its Series C funding to now total €87 million. Besides DB Schenker, Mitsui Sumitomo Insurance Group, TransLink Capital who join the round as new investors, existing investor Lukasz Gadowski and btov also invested. The funding will go towards the certification of the VoloCity, hiring more industry experts and a second-generation VoloDrone to ensure commercialization of the heavy-lift cargo drone product. To date Volocopter has raised total funding of €122 million. Volocopter is developing autonomous electrical Vertical Take-Off and Landing (eVTOL) aircraft, e.g. the VoloCity, to offer air taxi services in the megacities of this world as an addition to existing transport options. Just recently the company performed a public flight over Marina Bay Reservoir in Singapore demonstrating the maturity of its technology. A full scale VoloPort prototype on display allowed visitors to experience what UAM could feel like in the future. This bears testimony to Volocopter's holistic approach to UAM as an ecosystem. Last October, Volocopter presented the demonstrator of its VoloDrone, marking the company's expansion into the logistics, agriculture, public services and construction industries. (€1.00 = US\$1.08 at time of publication.)

### Seabury Capital establishes new financing arm to deliver advanced support for global aircraft market

Seabury Capital Group (Seabury Capital) has announced the formation of Seabury Aircraft Capital (SAC) through a combination of its existing advisory practices and the acquisition of an investment banking firm Structured Finance International (SFI) whose professionals have arranged over the past 20 years aircraft financing with an aggregated acquisition costs exceeding US\$18 billion (in 2020 dollars). By virtue of this combination, SAC will be one of the leading advisory and capital arranging firms for financing for new and used aircraft, using innovative tax-and non-tax-driven financing structures. With SAC, Seabury Capital professionals have a combined history of advising on over US\$300 billion of new aircraft agreements, US\$30 billion of aircraft financing structures and over US\$100 billion in corporate financing arrangements. Buttressed with SFI's investment banking capabilities, market knowledge, and expertise in the development and implementation of structured financing solutions for aerospace clients, SAC will assist carriers in sourcing and purchasing assets, as well as in arranging and executing the financings, specific to each airline fleet and balance sheet's requirements. In addition, the unit leadership's unique ability to analyze transactions from the

## MILITARY AND DEFENCE

### GKN Aerospace selected by FMV to support Gripen E RM16 aero engine



RM16 engine

Photo: GKN Aerospace

GKN Aerospace has been selected for the technical product support and MRO for the Gripen E RM16 engines of the Swedish Air Force. The RM16 is the Swedish name for the aero engine of the new Gripen E aircraft and GKN Aerospace's continued support to the platform was confirmed by FMV, in January. The engine is based on the General Electric F414 aero engine which powers the F-18 Super Hornet. GKN Aerospace will closely collaborate with Saab and GE to build up the necessary infrastructure and competence for the new engine type. The selection reinforces GKN Aerospace's unique position and extensive experience in aero engine support. It effectively means that technical support and maintenance for all versions of the Gripen aero engines will be available in Trollhättan, Sweden. GKN Aerospace is also the OEM and type certificate holder of the Gripen C/D RM12 aero engine and has been supporting the RM12 aero engines since the first Gripen aircraft went into service in 1997. GKN Aerospace employs 2,200 people in Trollhättan, Sweden, of which about 200 work in its military engines design and support business.

### MTU Maintenance Canada becomes F138 engine depot for the United States Air Force

MTU Maintenance Canada, MTU's competence center for military engine maintenance, will support the United States Air Force's (USAF) F138 engines and components with depot maintenance, repair and overhaul. The contract is currently valued at US\$225 million, awarded via the Canadian Commercial Corporation and runs for ten years to February 2030. The F138 is the military variant of the CF6-80C2 engine and powers the C-5M Super Galaxy – the largest aircraft in the



Helmut Neuper President and CEO, MTU Canada

Photo: MTU

USAF inventory with four of these engines. The CF6-80C2 program was recently introduced at MTU Maintenance Canada, with the first engine inducted in early 2020 and test cell correlation currently underway. "The CF6-80C2, and its military variant the F138, is a logical introduction into the MTU Maintenance Canada portfolio, as we have already serviced CF6-50 and KC-10 engines in the past," adds Helmut Neuper, CEO and President, MTU Maintenance Canada. "We had a great track record of 100 percent on-time delivery within the KC-10 program, a military derivative of the CF6-50 engine, and are delighted to have become prime contractor in this case." The first F138 USAF delivery order is expected in April this year.

## FINANCIAL NEWS

perspective of all key participants, including airlines, manufacturers, and investors, as well as their long-standing relationships within the investment community, are strategically positioned to expand Seabury Capital's investor pool, making airlines and aircraft more appealing to a wider array of institutional and other investors.

### Coronavirus forces Lufthansa to take new cost cutting course

In order to counteract the economic impact of the coronavirus at an early stage, Lufthansa is implementing several measures to lower costs: among other things, all new hires planned for the airline will be reassessed, suspended or deferred to a later date. Lufthansa is also offering employees unpaid leave effective immediately. An expansion of part-time work options in the context of collective bargaining agreements is currently being examined. All planned flight attendant and station personnel training courses as of April 2020 will not be carried out. For the time being, the participants of courses that are already in progress will not be hired. However, the aim remains to be able to offer the participants employment contracts in the long-term. In the administrative areas, the core brand Lufthansa will reduce its project volume by ten percent and the budget for material costs by 20 percent. Following a thorough assessment of all available information on the effects of the novel coronavirus, Lufthansa Group had already cancelled all flights by Lufthansa, SWISS and Austrian Airlines to/from mainland China until the end of the winter flight schedule on March 28. Currently 13 Lufthansa Group aircraft are on the ground.

### Astronics Corporation reports 2019 fourth-quarter and full-year financial results

Astronics Corporation reported that fourth-quarter consolidated GAAP sales were down US\$4.5 million, reflecting a US\$10.3 million decline related to the divestiture of the semiconductor business. The acquired businesses contributed US\$9.9 million in sales. As a result of the increase in the legal reserve and the impairment and restructuring charges associated with the antenna business, consolidated operating loss was US\$36.9 million, compared with operating income of US\$18.6 million in the prior-year period. The effective tax rate for the quarter was 21.3%, compared with 19.9% in the fourth quarter of 2018. Net loss was US\$34.1 million, compared with net income of US\$12.5 million in the prior year. Adjusted consolidated sales were up 3% to US\$196.5



SalamAir

Photo: Commsoft

**SalamAir** has chosen **Communication Software's** OASES engineering and maintenance platform for its growing regional airline. The deal will see the Oman-based airline using several OASES modules, all of which will be implemented on Commsoft's private cloud. These include its core, airworthiness, planning, materials, line maintenance control and warranty modules. The first low-cost carrier based in Oman, SalamAir was established in 2016 and now serves 27 destinations. Its current fleet comprises three Airbus A320-214s (with CFM56 engines) and five Airbus A320-251Neos with a further A320neo aircraft being planned. Implementation will start with the materials module in the next month and CAMO implementation will commence as new aircraft arrive. The OASES implementation will start immediately with onsite implementation likely to commence in March 2020.



Star Alliance welcomed THAI Smile Airways as a Star Alliance Connecting Partner

Photo: Star Alliance

**Star Alliance** has welcomed **THAI Smile Airways** as a **Star Alliance Connecting Partner** at an official ceremony held on February 25, in Bangkok. THAI Smile became the second Connecting Partner of Star Alliance. The Connecting Partner model was first introduced in May 2017. This collaboration is the first of its kind in Thailand. THAI Smile offers more than 396 weekly flights to 32 destinations in nine countries and regions. As a Connecting Partner, the airline will extend the Star Alliance network by ten new destinations.

## FINANCIAL NEWS

million in the fourth quarter of 2019. Adjusted Test System sales were up US\$8.9 million due to incremental sales from the acquired businesses, while the aerospace segment sales were down US\$3.1 million. Consolidated GAAP sales for the full year of 2019 decreased US\$30.6 million to US\$772.7 million, primarily because of the divested semiconductor business which had sales of US\$9.7 million in 2019 and US\$84.3 million in 2018. Consolidated operating income declined to US\$1.7 million compared with US\$63.7 million the prior-year period. The effective tax rate for 2019 was 23.8%, compared with 10.5% in 2018. The 2018 tax rate was favorably impacted by a revised state tax filing position. Net income was US\$52.0 million, compared with US\$46.8 million in the prior year. The US\$80.1 million pre-tax gain on the sale of the semiconductor test business contributed US\$60.4 million to net income after taxes.

## Fly Leasing reports fourth-quarter and full-year 2019 financial results

Fly Leasing (FLY) is reporting net income of US\$75.2 million for the fourth quarter of 2019. This compares to net income of US\$31.0 million for the same period in 2018. Net income for the year ended December 31, 2019 was US\$225.9 million, compared to net income of US\$85.7 million for the year ended December 31, 2018. Adjusted net income was US\$77.0 million for the fourth quarter of 2019, compared to US\$30.8 million for the same period in the previous year. For the year ended December 31, 2019, adjusted net income was US\$245.9 million, compared to US\$91.2 million for the same period last year. In the year 2019, FLY sold 35 aircraft with an average age of over 10 years, generating an economic gain of nearly US\$150 million, which was an 18% premium-to-book value.

## OTHER NEWS

**American Airlines** (American) has renewed its codeshare agreement with **Qatar Airways**, a premier carrier and member of the oneworld® alliance in the Arabian Peninsula. This is the first step in building a strategic partnership between the airlines that will increase commercial cooperation, bolster connectivity and create new travel options for customers. Following restoration of the codeshare, American will begin exploring the addition of service from the U.S. to Doha. "Our goal is to continue to expand and deepen our global partnerships to complement American's network and create



ANA Cargo is joining online platform cargo.one

Photo: ANA

help to accelerate our ambition to digitally transform our business within the coming years and to focus even more on our customer needs," said Toshiaki Toyama, Senior Vice President, ANA. "With cargo.one we enable freight forwarders to book our capacity offers in a fast and frictionless manner, 24 hours a day, seven days a week." Digital booking platform cargo.one has been accelerating its growth by leveraging network effects over the past year. In 2019, the platform distributed more than 2.2 million instantly bookable real-time offers to customers – averaging more than 6,000 a day. With each new airline joining the platform, the technology company sees a strong increase in bookings per user. ANA's strong network in Asia will boost overall capacities available to cargo.one customers on important trade-lanes and will thus help to add to the digital platform's monthly growth rate of, on average, 20%.

**All Nippon Airways**, Japan's largest airline, heralds in the new decade by joining leading online platform **cargo.one** to offer its cargo customers ebooking capabilities. Furthermore, the airline will profit from cargo.one's extensive customer base in Europe and, thus, expand its presence in key cargo markets. "Partnering with leading online booking platform cargo.one will



BAA Training Vietnam introduces its second FFS, an Airbus A320neo

Photo: BAA Training

**BAA Training Vietnam**, a brand-new aviation training center located in Ho Chi Minh, has expanded its training equipment. A state-of-the-art Airbus A320neo full-flight simulator has been assembled and approved by **Civil Aviation Administration of Vietnam** (CAAV) to provide pilot training in Vietnam. A modern 3000-m<sup>2</sup> training center opened doors in September of 2019 and with its first Airbus A320ceo full-flight simulator started to provide pilot training both for airlines and independent pilots. As the first training device has already reached its full utilization, the second, this time an Airbus A320neo full-flight simulator, is being introduced to the market. In addition to the second full-flight simulator, BAA Training Vietnam has installed a brand-new training device for firefighting training purposes – V9000 Commander. The device, imitating fire and smoke, is used to train cabin crew members to act in case of emergency: to fight fire and safely evacuate passengers. The new SIM International-manufactured Airbus A320 full-flight simulator is a high-fidelity Level D-certified simulator which, through a modular design, long-life COTS products and a standardized product baseline, ensures minimal training interruptions. More importantly, new technological solutions enable a greater focus to be placed on the competency-based training.

## OTHER NEWS

more choice for our customers,” said American’s Chairman and CEO, Doug Parker. “The issues that led to the suspension of our partnership two years ago have been addressed, and we believe resuming our codeshare agreement will allow us to provide service to markets that our customers, team members and shareholders value, including new growth opportunities for American Airlines. We look forward to the renewed cooperation between our airlines and hope to build an even stronger relationship with Qatar Airways over time.”

**Lufthansa Group’s** subsidiary **Eurowings** will connect Calgary, Canada, to Frankfurt, Germany, on a seasonal basis. Service will commence on June 1, 2020 and operate through to October 24, 2020. Calgary will join other Canadian gateways of the Lufthansa Group like Toronto, Montreal and Vancouver, as well as the upcoming route to Ottawa. Eurowings is the second Lufthansa Group airline to serve Calgary. Currently **SWISS’** subsidiary, **Edelweiss**, offers seasonal flights from Calgary to Zurich. The new Calgary route will be operated with an Airbus A330-200 offering a seat configuration of 22 Business Class seats, 17 Premium Economy seats and 231 Economy Class seats. The flight will operate four-times per week, on Mondays, Wednesdays, Fridays and Saturdays. As the summer travel period concludes, the service will switch to three weekly flights (Mondays, Fridays and Saturdays) beginning on October 5<sup>th</sup> until October 24, 2020.

**Finnair** is adding three weekly frequencies to Delhi once the peak travel season for summer 2020 begins at the end of June. Finnair currently flies four weekly frequencies to Delhi. As of July 1, the route will be operated daily for the remainder of the summer season as well as for the upcoming winter season. Finnair’s Delhi route is operated with an Airbus A330 aircraft and connects well to Finnair’s wide European and transatlantic networks. Finnair is also adding a weekly frequency to its popular Los Angeles route. The new frequency, which will be operated with an Airbus A350, will be flown on Fridays as of July 3, and will be operated until the end of the 2020 summer season which concludes on October 24, 2020.

**Magnetic MRO** and **OSM Aviation** (OSM) have signed an MoU to engage in a strategic partnership by generating an apprenticeship program aimed at OSM recruits and employees. The first group of qualified technical apprentices from Norway and Sweden has been selected and will start their 24-month practical studies program at Magnetic MRO in Tallinn, Estonia, from early September 2020. Globally, the



Air New Zealand Economy Skynest prototype

Photo: Air New Zealand

include a pillow, sheets, blankets and possibly a USB charging point and reading light. Flights being considered suitable for the Skynest include the Auckland to New York service which will begin next year, a flight lasting 17 hours and 40 minutes. The carrier has yet to give an indication of cost, but it will be in addition to the cost of an economy-class seat. Passengers will be able to book slots in the Skynest as opposed to booking one for the full flight, with cabin crew refreshing them with clean sheets, pillows, etc. on each changeover. As the Skynest is an optional extra for passengers, they will still retain their economy-class seat throughout the flight, even when using the Skynest. The airline would need to get it certified with regulators before passengers can expect to climb into the in-air beds. “But it was a prize worth chasing and one that we think has the potential to be a game-changer for economy class travelers on all airlines around the world,” said Kerry Reeves, Air New Zealand’s head of airline programs. If the product proves popular, Air New Zealand has said it will consider licensing the Skynest to other airlines.

**Air New Zealand** has announced it is investigating the potential use of “Skynest” sleeping pods for economy-class travelers on some of its longest routes. The carrier has applied for a patent for what it is calling “Economy Skynest” which will contain six full-length sleep pods at 200cm long and 58cm wide each. There will be three levels of beds and two beds on each level. Each bed will

**BAA Training**, one of the three largest European aviation training centers in Europe, has signed an agreement with **Air BP** to expand their cooperation with Air BP supplying BAA Training with Avgas 100LL, unleaded aviation fuel. The fuel will be used at all BAA Training flight bases as well as for the company’s aircraft at Lleida-Alguaire and other Spanish airports where training activities are carried out. Consequently, BAA Training becomes one of the first aviation training academies in southern Europe to use unleaded Avgas. According to BAA Training, the deal includes the bulk supply of UL91 – an approved colorless, unleaded aviation fuel with a fixed volatility range. It is designed to work year-round without seasonal variations and contains no ethanol, which is known to damage fuel system components, while also having an assured energy content – there are no alcohols or ethers which could reduce aircraft range. Additionally, with there being no need for a lead additive, the advantages include longer maintenance intervals and reduced spark plug deposits, thus allowing more time between maintenance. Specification and cleanliness requirements for UL91 are overseen by the aviation industry, including aircraft and engine manufacturers, fuel suppliers, the **European Aviation Safety Agency** (EASA) and **Federal Aviation Authority** (FAA). As one of the main aviation training providers in Europe, BAA Training has been working with such airlines as **Wizz Air**, **Avion Express**, **SmartLynx** building cadet training programs since 2016. In addition to that, in 2019 the company became a partner of Turkish Airlines to prepare cadets and started pilot assessment for cadet program with LOT Polish Airlines. In 2018, BAA Training added Lleida-Alguaire airport as its flight base seeking to ensure year-round flight training. “During the peak times we will fly more than 2,000 hours per month at our flight base in Lleida and with the growing number of students it is not only important to ensure a better performance and reduced maintenance of the aircraft, but simultaneously reduce lead emission impacting the environment”, said Egle Vaitkeviciute, CEO of BAA Training.



Photo: BAA Training will use unleaded Avgas

## OTHER NEWS

aircraft technical trade has undergone dramatic changes and shifts in manpower requirements over the past decades. At a regional level, there has been a steady reduction and a slow-down of maintenance activities carried out in Scandinavia. As a consequence, there has been a sharp decrease in interest among students who select the aircraft technical trade and the industry is suffering from low growth and low interest among young talents. OSM Aviation, a leading global specialist in employment, training and administration of aviation personnel worldwide, has also encountered the lack of internship opportunities in the region for the students who require such apprenticeships in order to complete their technical studies, therefore the joint program was established in cooperation with Magnetic MRO. The first application wave proved to be successful with over 60 students applying for the internship, laying the foundation for a continuous and promising program offering.

The **Court of Appeal** has overruled the **U.K. governments** go-ahead for a third runway at **London Heathrow Airport** on the basis that it was unlawful. The principal bone of contention relates to environmental factors. Transport Secretary Grant Shapps said the government would take time to decide its next move. "The court's judgement is complex and requires careful consideration. We will set out our next steps in due course," he said. "The government has taken the decision not to appeal this judgement. The promoters of the scheme will be able to seek permission from the Supreme Court to appeal if they wish." Not surprisingly, Heathrow bosses want to keep alive the plans for the redevelopment and believe that they can.

## INDUSTRY PEOPLE



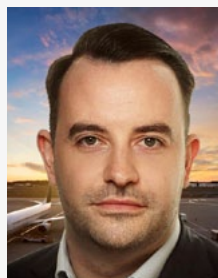
Thomas Hundt

he served as Senior Vice-President, Performance Management and Costing

• Airbus Helicopters has appointed **Thomas Hundt** Executive Vice-President Finance and Member of the Executive Committee of Airbus Helicopters, effective March 1, 2020. Previously,

## INDUSTRY PEOPLE

for Airbus Helicopters and Managing Director, Airbus Helicopters Germany. Hundt succeeds **Linda Honold**, who will retire after more than three decades with Airbus and its predecessor companies. Before joining Airbus Helicopters in 2016, Thomas Hundt was Chief Financial Officer and Senior Vice-President, Arianespace, based in Evry, France.



David Byrne

a member of the AerCap team for over five years, where he was most recently Director of Leasing, with responsibility for sales and marketing activities across the EMEA region. His prior experience includes GECAS and CAE Parc Aviation. Based in Dublin, Ireland, Byrne will be responsible for coordinating asset remarketing for GA Telesis' expanding global portfolio.

## Recommended Events



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### OPERATING LEASE & AVIATION FINANCE SEMINAR

24-26 March 2020 - Holiday Inn High Street Kensington, London

### MANAGING TECHNICAL ASPECTS OF A LEASED ASSET & MAINTENANCE RESERVES TRAINING SEMINAR

21-22 April 2020 - NH Amsterdam Centre, The Netherlands

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**Publisher**

Peter Jorssen

Tel: +1 604 318 5207

**Editor**

Heike Tamm

editor@avitrader.com

Tel: +34 (0) 971 612 130

**Advertising Inquiries**

Tamar Jorssen

VP Sales & Business Development

tamar.jorssen@avitrader.com

Toll free: +1 (833) 258 8543

Mobile: +1 (778) 213 8543

For inquiries and comments,  
please email:

editor@avitrader.com



# THE AIRCRAFT AND ENGINE MARKETPLACE

## Commercial Jet Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
A319-100	DVB Bank	CFM56-5B63	3586	2008	Q3/2020	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
A319-100	DVB Bank	V2522-A5	2375	2005	Q2/2021	Sale / Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
A319-100	BBAM	CFM56-5B5/P	2129	2004	Apr 2020	Sale / Lease	Steve Zissis	info@bbam.com	+1 415 486 6100
A319-100	BBAM	CFM56-5B5/P	2249	2004	May 2020	Sale / Lease	Steve Zissis	info@bbam.com	+1 415 486 6100
A319-100	BBAM	CFM56-5B5/P	1362	2000	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 415 486 6100
A319-100	BBAM	CFM56-5B5/P	2251	2004	Mar 2020	Sale / Lease	Steve Zissis	info@bbam.com	+1 415 486 6100
A320-200	ORIX Aviation	CFM56-5B4/P	2584	2005	Q1/2021	Sale / Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A320-200	TrueAero Asset Management	V2527E-A5	5794		Nov 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A320-200	TrueAero Asset Management	V2527E-A5	5531		Oct 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A320-200	TrueAero Asset Management	V2527E-A5	5296		Aug 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A320-200	TrueAero Asset Management	V2527E-A5	5089		Jun 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A320-200	TrueAero Asset Management	V2527E-A5	5050		Apr 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A320-200	DVB Bank	V2527-A5	3734	2009	Q1/2021	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
A320-214	DVB Bank	CFM56-584/3	3767	2009	Q1/2021	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
A320-230	DVB Bank	V2527-A5	4552	2010	Q4/2020	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
A320-200	DVB Bank	CF6-80E	814	2007	Q1/2021	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
A330-200	GA Telesis	CF6-80E1A4	510	2002	Now	Sale	Mauro Francazi	aircraft@gatelesis.com	+1-954-676-3111
A330-200	Presidio Aircraft Leasing	CF6-80E1A3	871	2007	Now	Lease	Stephen Haire	shaire@aelfinc.com	+1 312 772 1613
A330-200	TrueAero Asset Management	CF6-80E1A4/B	882		Apr 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A330-200	TrueAero Asset Management	CF6-80E1A4/B	901		Apr 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A330-200	TrueAero Asset Management	CF6-80E1A4/B	932		May 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A330-223	Presidio Aircraft Leasing	PW4168A	970	2008	Now	Lease	Stephen Haire	shaire@aelfinc.com	+1 3127721613
A330-300	BBAM	Trent 772B-60	1544	2014	Jul 2020	Sale / Lease	Steve Zissis	info@bbam.com	+1 415 486 6100
A330-300	BBAM	Trent 772B-60	1562	2014	Sep 2020	Sale / Lease	Steve Zissis	info@bbam.com	+1 415 486 6100
A330-300	DVB Bank	CF6-80EI	1146	2010	Q1/2021	Sale / Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
B737-800	DVB Bank	CFM56-7B27	30654	2003	Q1/2021	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
B737-800	ORIX Aviation	CFM56-7B26E	38034	2012	Q4/2020	Sale / Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
B737-800	ORIX Aviation	CFM56-7B26	34153	2005	Q1/2021	Sale / Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
737-900	BBAM	CFM56-7B26/3	34953	2007	Dec 2020	Sale / Lease	Steve Zissis	info@bbam.com	+1 415 486 6100
B777-300ER	Doric	GE90-115BL1	35592	2009	Q2/2021	Sale / Lease	Maurick Groeneveld	maurick.groeneveld@doric.com	+49 (0)69 247559931
B777-300ER	Doric	GE90-115BL2	36158	2009	Q2/2021	Sale / Lease	Maurick Groeneveld	maurick.groeneveld@doric.com	+49 (0)69 247559931
B777-300ER	DVB Bank	GE90-115B	37705	2009	Q1/2021	Sale / Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449

## Regional Jet / Turboprop Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
CRJ-200LR	Regional One	CF34-3B1	8062	2006	Now	Sale / Lease	Andre Boudreaux	Aboudreaux@regionalone.com	+1(305) 759-0670 Ext.164
CRJ-700	Regional One	CF34-8C5B1	10205	2005	Now	Sale / Lease	Andre Boudreaux	Aboudreaux@regionalone.com	+1(305) 759-0670 Ext.164
D0328 Jet	Regional One	PW306B	3185	2001	Now	Sale / Lease	Andre Boudreaux	Aboudreaux@regionalone.com	+1(305) 759-0670 Ext.164
ERJ170-100LR	Regional One	CF34-8E5	17000123	2006	Nov 2019	Sale / Lease	Andre Boudreaux	Aboudreaux@regionalone.com	+1(305) 759-0670 Ext.164



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# THE AIRCRAFT AND ENGINE MARKETPLACE

## Regional Jet / Turboprop Aircraft (cont.)

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
ERJ-145LR	Regional One	AE3007A1	145304	2001	Now	Sale / Lease	Andre Boudreaux	Aboudreaux@regionalone.com	+1(305) 759-0670 Ext.164
ERJ-145LR	Regional One	AE3007A1	145331	2000	Now	Sale / Lease	Andre Boudreaux	Aboudreaux@regionalone.com	+1(305) 759-0670 Ext.164

## Commercial Engines

Multiple Types	Sale / Lease	Company	Contact	Email	Phone
Multiple Engines GE / CFM / RB211	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
AE3007 Engines	Sale / Lease	Company	Contact	Email	Phone
(3) AE3007A1P	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 786-623-3936
(1) AE3007A1	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Ben Ferguson	Benjamin.ferguson@rolls-royce.com	+44 7807 969 372
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				
CF34-3B1	Now - Sale				
CF34-3A	Now - Sale / Lease				
(2) CF34-8C5B1	Now - Sale / Lease	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) CF34-3B1	Now - Sale / Lease				
(3) CF34-10E	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) CF34-8E5A1	Jan 2020 - Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204x202
(1) CF34-8C5A1	Jan 2020 - Lease				
(1) CF34-10E6	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
CF34-8E(s)	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1 (513) 782-4272
CF6 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CF6-80C2B6F	Now - Sale / Lease	GA Telesis	Eddo Wiejer	ewiejer@gatelesis.com	+1-954-676-3111
(1) CF6-80C2B1F	Now - Sale / Lease				
(1) CF6-80C2B7F	Now - Sale / Lease				
(1) CF6-80E1A4	Now - Sale / Lease				
(1) CFM56-5C4/P	Mar 2020 - Sale / Lease	Castlake	Stuart MacGregor	stuart.macgregor@castlake.com	+442071906138
(1) CF6-80C2B1F	Now - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
CFM Engines	Sale / Lease	Company	Contact	Email	Phone
(2) CFM56-5B (all thrust levels)	Now - Sale / Lease	Contrail Aviation	Kevin Milligan	kevin@contrail.com	+1 949-933-0797
(2) CFM56-7B (all thrust levels)					
(1) CFM56-5B4/P (full QEC)	Now Sale / Lease	Fortress Investment Group	Tom McFarland	tmcfarland@fortress.com	+1 786 785 0787
(3) CFM56-7B24/3	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) CFM56-5B4/3	Now - Lease				
(1) CFM56-5B6/P	Now - Lease				
(1) CFM56-5B4/P	Now - Lease				
(1) CFM56-7B22/3	Now - Lease				
(2) CFM56-7B24E	Now - Lease				
(1) CFM56-7B27	Now - Lease				



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# THE AIRCRAFT AND ENGINE MARKETPLACE

## Commercial Engines (cont.)

(2) CFM56-5A	Now - Sale	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
(1) CFM56-5B3/3	Now - Lease	Rolls-Royce & Partners Finance	Charlie Ferguson	charlie.ferguson@rolls-royce.com	+44-(0)7772224895
(2) CFM56-7B22	Now - Sale	CFM Materials	Jimmy Hill	jimmy.hill@cfmmaterials.com	+1 -214-988-6670
(1) CFM56-7B26/E	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CFM56-7B26	Now - Lease				
(1) CFM56-7B24/E	Now - Lease				
(1) CFM56-5B3/3	Now - Lease				
(1) CFM56-5B4/3	Now - Lease				
(2) CFM56-7B22	Now - Sale / Lease	GA Telesis	Eddo Wiejer	ewiejer@gatelesis.com	+1-954-676-3111
(2) CFM56-5B6	Now - Sale / Lease				
(2) CFM56-5B4/P	Now - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
(2) CFM56-7B26/27	Now - Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(2) CFM56-5B6/P	Now - Lease				
(1) CFM56-5B4/P	Now - Lease				
<b>JT8D and JT9D Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) JT8D-219	Now - Sale	AZURE RESOURCES INC.	Jeff Young	jeff@azureres.com	1-954-249-7935
<b>GE90 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) GE90-115B	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(2) GE90-115	Now - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
(1) GE90-115BL (Propulsor)	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
<b>GENx Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) GENx1B74/75 Propulsor	Jan 2020 - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
<b>LEAP Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(2) LEAP-1B28	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) LEAP-1A33	Mar 2020 - Lease				
(1) LEAP-1A32	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) LEAP1A-32	Now - Lease	Rolls-Royce & Partners Finance	Charlie Ferguson	charlie.ferguson@rolls-royce.com	+44-(0)7772224895
<b>PW 4000 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) PW4056-1C	Now - Sale / Lease	GA Telesis	Eddo Wiejer	ewiejer@gatelesis.com	+1-954-676-3111
<b>PW Small Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(3) PW121	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) PW123B/E	Now - Sale / Lease				
(3) PW127E/F/M	Now - Sale / Lease				
(1) PW150A	Now - Sale / Lease				
(2) PW123	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	leasing@willislease.com	+1 (561) 349-8950
(2) PW150A	Now - Sale/Lease/Exch.				
(2) PW127M	Now - Sale/Lease/Exch.				
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				
(1) PW124B	Now - Sale/Lease/Exch.	Logix.Aero	Jean-Christian Morin	jcmarin@logix.aero	+33.6.4782.4262
(2) PW127E/F	Now - Sale/Lease/Exch.		Remi Kry	rkry@logix.aero	+33.6.2079.1039
(4) PW127M	Now - Sale/Lease/Exch.				
(1) PW118	Now - Lease / Exchange				
(1) PW118A	Now - Lease / Exchange				
(1) PW119B	Now - Lease / Exchange				
(1) PW121	Now - Lease / Exchange				
(1) PW121A	Now - Lease / Exchange				
(1) PW125B	Now - Lease / Exchange				
(1) PW120 / PW121	Now - Sale / Lease	Royal Aero	Calum MacLeod	calum@royalaero.com	+49 8025 993610

# THE AIRCRAFT AND ENGINE MARKETPLACE

## Commercial Engines (cont.)

PW Small Engines	Sale / Lease	Company	Contact	Email	Phone
(1) PW120A	Now - Sale / Lease	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) PW120	Now - Sale/Lease/Exch.				
(1) PW123E	Now - Sale/Lease/Exch.				
(4) PW126	Now - Sale/Lease/Exch.				
(1) PW121	Now - Sale/Lease/Exch.				
Trent Engines	Sale / Lease	Company	Contact	Email	Phone
(1) Trent 772B	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Ben Ferguson	Benjamin.ferguson@rolls-royce.com	+44 7807 969 372
(2) Trent 772B-60	Jul 2020 - Sale / Lease	BBAM	Steve Zissis	info@bbam.com	+1 415 486 6100
V2500 Engines	Sale / Lease	Company	Contact	Email	Phone
(2) V2533-A5	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Ben Ferguson	Benjamin.ferguson@rolls-royce.com	+44 7807 969 372
(2) V2533-A5	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) V2527-A5	Now - Lease				
(2) V2527-A5	Jan 2020 - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) V2527-A5	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) V2533-A5	Now - Lease				
(1) V2527-A5	Now - Sale / Lease	GA Telesis	Eddo Wiejer	ewiejer@gatelesis.com	+1-954-676-3111
(1) V2533-A5	Now - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
(1) V2527-A5	Now - Lease				

## Aircraft and Engine Parts, Components and Misc. Equipment

Description		Company	Contact	Email	Phone
(1) A320-200 Landing Gear	Now - Sale/Lease/Exch.	TrueAero, LLC	Matt Parker	mparker@trueaero.com	+1 469-607-6110
A340-300/A330 Landing Gear	Now - Sale/Lease/Exch.				
A340-600 Landing Gear	Now - Sale/Lease/Exch.				
B777-200 Landing Gear	Now - Sale/Lease/Exch.				
Trent 552 Inlet Cowl & Fan Cowl	Now - Sale/Lease/Exch.				
Trent 892 Inlet Cowl and Fan Cowl	Now - Sale/Lease/Exch.				
CFM56-5B Inlet Cowl and Fan Cowl	Now - Sale/Lease/Exch.				
V2500-A5 Inlet Cowl & Fan Cowl	Now - Sale/Lease/Exch.				
CF6-80E Trust Reversers, Inlets & Fan Cowl	Now - Sale/Lease/Exch.				
APUs (2) APS2300	Now - Sale/Lease/Exch.				
APUs (2) GTC331-500B, (1) APS3200	Now - Sale/Lease/Exch.				
Neutral CFM56-7B QEC Kit	Q4/2019 - Sale	CFM Materials	Michael Arellano	Michael.Arellano@cfmmaterials.com	+1-214-988-6676
767-300ER 413K, 737-300 LANDING GEAR	Now - Sale/Lease/Exch.	AZURE RESOURCES INC.	Jeff Young	jeff@azureres.com	1-954-249-7935
GTC331-98DHF APU	Now - Sale/Lease/Exch.				
A320 Nose Landing Gear	Now - Sale/Lease/Exch.				
CFM56-3 LPT MODULE, REPAIRED	Now - Sale/Lease/Exch.				
CFM56-3 ENGINE STAND	Now - Lease				
(1) GTC331-150RJ, (2) GTC331-100M,	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) RE220RJ, (1) PW126 RGB, (1) PW901A					
(1) APS1000-C12, (1) APS1000-C3					
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) PW901A APU	Now - Sale	Royal Aero	Gary MacLeod	gary@royalaero.com	+44 (0)141 389 3014
Neutral V2500-A5 QEC Kits (2) 745K9001-64	Now - Sale	ASI Aero	Dean Morgan	deanm@asiaero.net	+1 561-771-4253
(1) GTC331-9B	Now - Sale / Lease	DASI	Chris Glascock	Chris.Glascock@dasi.com	+1 954-801-3592
(4) GTC331-9A, (1) GTC331-9B, (2) GTC331-350		GA Telesis		apu@gatelesis.com	+1-954-676-3111
(1) GTC331-200ER, (1) GTC331-550, (1) APS3200					
GTC331-9A, GTC331-9B, GTC331-350C	Now - Sale/Lease/Exch.	Logix Aero	Jean-Christian Morin	jcmorin@logix.aero	+33.6.4782.4262
GTC331-500B, GTC331-200/250, APS5000			Rich Lewsley	rlawsley@logix.aero	+1 602 517 8210
APS3200, APS2300					
(1) APU GTC331-500	Now - Sale / Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
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