

# Weekly Aviation Headline News

## WORLD NEWS

### Air Astana upgrades fleet with new Airbus deliveries

Air Astana continues to modernise its fleet with the delivery of the second Airbus A321LR under an operating lease agreement covering five aircraft with Air Lease Corporations. Along with the first Airbus A321LR delivered in September 2019, the newest aircraft will primarily operate on routes to London, Paris, Moscow and Istanbul. Air Astana was the first airline in the CIS to take delivery of the Airbus A321LR. Air Astana is also scheduled to take delivery of three new A320neo in the next few months, with all aircraft powered by Pratt & Whitney engines.

### TAP joins e-booking platform cargo.one community

TAP Air Portugal (TAP) and air cargo e-booking platform cargo.one have entered a global partnership. The agreement will support the rapid growth of TAP's cargo business by introducing new digital capabilities such as online distribution and dynamic pricing. The partnership will also reinforce operational efficiency and day-to-day service quality of the airline.

### KLM enters codeshare with Loganair

KLM and Loganair have announced a codeshare agreement, connecting regional Scotland to KLM's extensive network of 165 destinations worldwide. As a result of the codeshare partnership, Loganair flights from Orkney Island, the Shetland Islands and the Scottish Western Isles will connect with KLM flights from Aberdeen, Edinburgh, Glasgow and Inverness, providing global connectivity to and from the Scottish Islands.



The writing was on the wall for Flybe.

Photo: Keith Mwanalushi

## Lessons from Flybe collapse

### High cost and a confused business model

Coronavirus is being cited as a main cause for Flybe falling into administration, but the writing has been on the wall for the airline since its profit warning in 2017.

"Flybe blamed a number of external factors for its prolonged demise such as maintenance costs, the weaker pound and rising fuel costs. However, its competitors had to deal with these issues too. The main difference is that Ryanair and British Airways possess focused business models. Flybe was caught between the two, offering short-haul flights for prices that were not necessarily low cost," commented Ralph Hollister,

Analyst, Travel and Tourism at GlobalData, a data and analytics company.

Hollister said the impact of

carriers to dominate the market have led to an ongoing price war, which has resulted in a growing list of airline casualties. One of the first was UK airline Monarch, which went into administration in 2017. This incident should have set alarm bells ringing for Flybe. Unprofitable routes should have been scaled back much sooner than they were," Hollister analysed.

The number of regional and domestic carriers in the UK is worryingly low. Immediately following the collapse of Flybe, Scottish airline Loganair said

coronavirus may have also provided the perfect opportunity for a Virgin Atlantic led consortium to stop injecting money into a business that seemed to be some way away from achieving profitability.

"Attempts by major European

**"Flybe was...offering short-haul flights for prices that were not necessarily low cost."**

*Ralph Hollister, Analyst, Travel and Tourism at GlobalData*

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## BEYOND MRO

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it would step in to safeguard UK regional connectivity by taking up 16 routes formerly flown by Flybe.

Loganair’s CEO Jonathan Hinkles said: “By stepping in quickly with a comprehensive plan, Loganair is aiming to maintain essential air connectivity within the UK regions to keep customers flying, and to offer new employment to former Flybe staff members who are facing an uncertain future.”

The 16 routes – from existing Loganair base airports at Aberdeen, Edinburgh, Glasgow, Inverness and Newcastle – will be launched progressively over the next four months. Flights on the first and largest group of these

key air routes will commence as early as Monday 16 March.

Bosses at the UK trade union – GMB, warned that eight regional airports face closure in the wake of the Flybe collapse and between them, the airports directly employ at least 1,000 people.

Nadine Houghton, GMB National Officer, said: “GMB is calling on the Government to step in and protect the regional airports. These hubs are vital parts of the UK economic infrastructure that communities and regional economies rely on. Without them economic disparities will widen, but now they face closure.”



Loganair will take over some Flybe routes says Hinkles.  
Photo: Loganair

## AIRCRAFT & ENGINE NEWS

### Textron Aviation signs purchase contract with Pel-Air for King Air 350 air ambulance aircraft



King Air 350

Photo: Textron Aviation

Textron Aviation has signed a purchase contract with Pel-Air, based in New South Wales, Australia, for five Beechcraft King Air 350 air ambulance turboprop aircraft. The aircraft, configured for multi-stretcher operations, will be equipped with the aft cargo door and heavy weight options for additional performance capabilities. Deliveries are expected to begin later this year and run through 2021. The five King Air turboprops will be used by Pel-Air to provide contracted air ambulance service to NSW Air Ambulance, a government agency providing emergency services in New South Wales as part of NSW Health Service. The new aircraft, which will be based in Mascot at Sydney Airport, will replace the current mixed fleet of King Air B200 and B350 aircraft that have been used to support NSW Ambulance to date.

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**Increased maximum take-off weight for Airbus A330neo variant to be certified by mid-2020**



Airbus' new weight variant A330neo makes its first flight

Photo: Airbus

More range and even better economics: these are the key attributes of Airbus' increased maximum take-off weight A330neo variant, which flew for the first time on February 28. Benefitting from a maximum take-off weight increase to 251 tons, the A330neo offers a significant 650-nautical mile boost in range – or six tons more payload – when compared to the A330neo's current 242-tonne version. This increase in range responds to evolving market needs, enabling airlines to benefit from the unique economics of the A330neo on even longer routes. Taking to the skies for the first time from Toulouse, France, was the 251-tonne A330-900 – which provides the perfect fit for longer trans-Pacific or Asia-Europe routes. The A330-900 is the longer-fuselage A330neo version, seating 260-300 passengers in a typical three-class cabin configuration. The

shorter-fuselage A330-800 – which accommodates 220-260 passengers in a three-class configuration, will open up very-long-range Pacific routes for the 251-tonne version, while delivering the lowest seat-mile cost in its category. The increased take-off weight A330-900 is expected to be certified by airworthiness authorities mid-2020, followed in 2021 by the A330-800 variant.

**CFM logs more than 2,100 engine orders in 2019**

CFM International received orders and commitments for a total of 2,148 engines in 2019 at a value of more than US\$30.7 billion, at list price, including 180 CFM56 engines (commercial, military and spares) and 1,968 LEAP engines (including spares). Since the first LEAP engine orders in 2011, CFM has garnered more than 19,010 total installed and spare engine orders and commitments through December 2019 at a value of more than US\$275 billion at list price. The company also signed long-term Rate Per Flight Hour (RPFH) agreements with airlines to support their LEAP engine fleet operations. The company delivered 1,736 LEAP installed and spare engines in 2019 compared to 1,118 engines in 2018, along with 391 CFM56 engines. "2019 was a solid year



easyJet A319-100 equipped with CFM56-5B engines

Photo: Safran

for CFM, The LEAP family continued to be the engine of choice for new single-aisle aircraft – we surpassed 19,000 total orders – and the continued confidence our customers have shown in our products is humbling. The engine continues to earn that trust every day by delivering the world-class fuel efficiency and utilization we promised," Gaël Méheust, President and CEO CFM International.

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**MRO & PRODUCTION NEWS**

**Stevens Aerospace awarded Mexican AFAC approval for Macon, GA. facility**

Stevens Aerospace and Defense Systems has been awarded full Mexican Agencia Federal de Aviación Civil (AFAC) approval for the company's facility in Macon, Ga. (KMCN). This authorization allows Stevens to fully work and return to service Mexican-registered aircraft. The approval provides owner-operators of Mexican-registered aircraft, from turbo props to large cabin business jets, an additional high-quality option in the U.S. for maintenance, avionics modifications and interior refurbishments. Stevens' Macon team specializes in Gulfstream and Global aircraft, but has considerable expertise and authority on Challenger, Citation, Embraer, Hawker, King Air, Learjet and other airframes. Stevens' Greenville, S.C. operation (KGYH) has been Mexican-certified for years and the company's Nashville facility (KBNA) is currently in-process and expecting authorization later this year.

**GA Telesis MRO Services Group receives B737NG landing gear certification from FAA**

GA Telesis' MRO Services Group has received its Boeing 737NG landing gear certification from the United States Federal Aviation Administration. This new rating allows GA Telesis MRO Services to repair and overhaul Boeing 737NG landing gears. The company has elected to make a substantial investment in growing its MRO services footprint and will invest in the latest equipment, tooling, and plating technologies available for current and future-generation aircraft models. Landing gear repairs and overhauls for this aircraft type will be carried out in the Miami facility located across from Miami International Airport and will support Florida Governor Ron DeSantis' job creation initiatives creating a significant number of new high-tech jobs.

**First Airbus A350-900 for Aeroflot**



The first Airbus A350-900 for Aeroflot

Photo: Airbus

Russian flag carrier Aeroflot, a member of the SkyTeam alliance, has taken delivery of its first A350-900, becoming the launch operator of the latest-generation wide-body aircraft in Eastern Europe and CIS. Aeroflot's A350-900 features a distinctive new livery embracing its almost 100-year heritage. Aeroflot has a total of

22 A350-900 aircraft on order and operates an Airbus fleet of 126 aircraft (107 A320 Family and 19 A330 Family aircraft). Aeroflot's A350-900 features a brand-new elegant cabin design, offering unrivalled passenger comfort. The aircraft has a spacious three-class cabin layout with 316 seats: 28 private Business Class suites with full-flat seats, 24 Comfort Class with extra legroom and 264 Economy Class. In addition, the latest-generation Panasonic eX3 in-flight entertainment system, HD screens and Wi-Fi connectivity will ensure enhanced experience for all passengers on long-haul flights. Aeroflot will operate its A350-900 from Moscow to a number of destinations including London, Dubai, New York, Miami, Osaka and Beijing.

**FAI grows jet fleet to 27 with addition of second Premier 1A aircraft**

German Special Mission and VIP-Charter Operator FAI rent-a-jet AG, part of FAI Aviation Group, has acquired its second Premier 1A jet aircraft (MSN RB-196, D-IVAG) on behalf of a corporate client. It is anticipated that the Premier 1A will enter turnkey charter operations under management contract in June following a carbon fiber-style full-cabin refurbishment and new exterior designer paint. This latest addition will bring the company's fleet of jet aircraft to 27. The Premier 1A light jet provides comfort for up to six passengers and will feature a well-appointed, light-gray leather interior in a four-seat Club configuration and two aft chairs. In addition, onboard Wi-Fi and internet/VoIP will be provided by Gogo's Aviator 200 system.



FAI has acquired a second Premier 1A aircraft

Photo: FAI



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**MRO & PRODUCTION NEWS**

**MAC Aero Interiors to establish new production facility in Estonia**



MAC Aero Interiors production in Tallinn, Estonia

Photo: MAC Aero Interiors

MAC Aero Interiors, a United Kingdom-based subsidiary of Magnetic MRO, has moved its production facility to Tallinn, Estonia. The new facility in Estonia’s capital was opened in January 2020 and publicly on March 4, 2020. Due to changes in the economic environment in the United Kingdom, the company has made the decision to support its customers in full-scope delivering high-standard service via Magnetic MRO Part 145, POA, DOA-certified production facility in Tallinn, Estonia. MAC Aero Interiors remains the supplier and holder of its contractual obligations, while production is executed at MAC Aero Interiors parent company Magnetic MRO facility – benefitting from the wide network of Magnetic’s overall infrastructure in Tallinn. Additionally, China-based MAC Sichuan (a subsidiary to MAC Aero Interiors) continues to provide cabin total technical care support for large-volume orders and brings exposure to the Asian market.

**FINANCIAL NEWS**

**Air New Zealand reports interim profit of NZ\$198 million**

Air New Zealand has reported earnings before other significant items and taxation of NZ\$198 million for the six-month period ended December 31, 2019, compared to NZ\$217 million in the prior period, reflecting the slower demand growth environment, weakness in the global cargo market and the ongoing unrest in Hong Kong. Earnings before taxation were NZ\$139 million and net profit after taxation was NZ\$101 million. Operating revenue growth of 3 percent was driven by solid demand across the airline’s Domestic and Pacific Islands networks, as well as recently launched services into Asia and North America. This helped to mitigate weaker cargo demand, increased competition on the Tasman and the impact of disruptions in Hong Kong. Operating costs increased 3.5 percent in the period, impacted by significant price increases in domestic air navigation and landing charges, as well as a weaker New Zealand dollar. Maintenance costs for third party contracts also increased, however this was more than offset by the related revenues. Fuel costs increased 1.1 percent, as an improvement in the underlying fuel price was offset by foreign exchange and

**Safran and Lufthansa Technik sign MRO partnership agreement for A380 landing gear**



A380 landing gear

Photo: LHT

Safran Landing Systems and Lufthansa Technik have signed a long-term contract on A380 landing gear services. The two companies will combine their respective areas of A380 landing gear MRO expertise at their Singapore (Safran Landing Systems) and London (Lufthansa Technik) facilities to deliver optimized solutions that cover all aspects of the so-called superjumbo jet’s landing gear. This extensive asset and MRO partnership will provide airlines with a single point of contact throughout the whole commercial and industrial chain, thus a comprehensive A380 landing gear support. Airlines will be free to send their complete set of landing gear to one of the partners, thus avoiding complex processes.

**FINANCIAL NEWS**

fuel volumes resulting from growth in the International network. (US\$1 = NZ\$1,58 at time of publication)

**LCI seals new partnerships with two leading financial institutions**

LCI, the aviation division of the Libra Group, has sealed new partnerships with two leading financial institutions as it continues to grow its fleet. The lessor has just taken delivery of a Leonardo AW169 helicopter with financing arranged from new partner, Investec. The state-of-the-art aircraft is being placed with a leading European provider of B2B helicopter services on a long-term lease. LCI has also concluded an asset-backed financing arrangement for one of its fleet of Leonardo AW189 helicopters in a transaction with new financial partner Grupo Santander for an aircraft valued at over US\$15 million. The aircraft is currently on a long-term lease to a European operator. This start to the new decade follows 2019 in which LCI concluded over US\$400 million of financing and refinancing arrangements.

**CALC to invest in TransNusa Aviation**

CALC a full value chain aircraft solutions provider for the global aviation industry, announced that it would be investing in an Indonesian airline operating company, PT TransNusa Aviation Mandiri (TAM), through a subscription agreement with Aviation Synergy, under which the company agreed to indirectly invest and acquire a 35.68% equity interest in TAM for a total cash consideration of US\$28 million (equivalent to approximately HK\$ 218.4 million) at completion. This is a significant move for CALC to expand its downstream footprint to cover the entire aviation value chain, aligning the group's business strategy in combining vertical integration and horizontal expansion.

**flydubai back in profit with help from Boeing compensation**

Having operated at a loss of US\$43.5 million in 2018, the United Arab Emirates' carrier flydubai has posted a profit of 198.2 million dirhams (US\$54 million) for 2019, the reversal in fortune partially helped by a compensation agreement with Boeing over the grounding of the 737 MAX jet in which an interim settlement has been agreed and talks are ongoing over the continued grounding. The Gulf carrier currently has 14 MAX jets which have been grounded since last March and has seen its operational fleet size shrink by 25% with the addition of a number of older

**DC Aviation Group and Comlux sign cooperation agreement**



DC Aviation and Comlux contract signing

Photo: Comlux

DC Aviation Group and Comlux have signed a cooperation agreement. DC Aviation has been selected to perform the line maintenance and warranty work for Comlux customers based in Europe and CIS. The line and base maintenance services for aircraft of the Airbus ACJ Family, Global Express 5.000/6.000, and Challenger 604/605 will be carried out at DC Aviation's dedicated 5,700 m<sup>2</sup> Stuttgart Airport (EDDS) hangar, which also contains a large and well equipped parts inventory, a certified battery and tire shop, and a maintenance logistics center. DC Aviation has been offering line and base maintenance services for various types of aircraft since 1999 and is able to carry out exceptionally complex work with the highest level of reliability and competence. Due to 24/365 availability, combined with intelligent planning and smooth workflows, DC Aviation is able to meet challenging ground-times.

**Air India Engineering Services to perform Pratt & Whitney GTF™ maintenance**



Photo: P&W Text: Overhaul of Pratt & Whitney GTF™ engine

Air India Engineering Services (AIESL) will provide maintenance, repair, and overhaul (MRO) services in support of Pratt & Whitney's GTF™ engines and customers in India. AIESL will service PW1100G-JM engines at its facility in Mumbai. AIESL's introduction to GTF maintenance will be a phased approach, starting with engine upgrade and module exchange capabilities as immediate support of the GTF fleet in India. The facility has already received its first GTF engine.

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aircraft that have been retired. To overcome many of the problems caused by the MAX grounding flydubai has been leasing other 737 variants on an interim basis. Revenue in 2019 fell by 2.6% – 6 billion dirhams (US\$1.63 billion) compared to 2018, operating costs fell 17.8% and the carrier flew 9.6 million passengers compared to 11 million in 2018.

**Rolls-Royce upbeat on recent advances despite COVID-19 outbreak**

Rolls-Royce rounded off 2019 on a positive note having overcome most of the problems which had particularly beset its Trent 1000 TEN engine variant which powers the Boeing 787 Dreamliner with durability issues. With the roll-out of fixes progressing and increased confidence in a new engine blade due for production next year, the number of grounded jets requiring inspection or repairs to engines should drop to single digits by the end of the second quarter this year, which, according to Warren East, Rolls-Royce CEO, is in line with forecasts. Rolls-Royce reported a £852 million operating loss for 2019, predominantly owing to a £1.4 billion charge for the Trent 1000, without which, core underlying profit rose 25% to £810 million. Cash flow increased to £911 million, led by higher profit and Trent 1000 insurance receipts worth £173 million. East confirmed that Rolls-Royce had delivered a record 510 wide-body aircraft engines in the year and secured about two out of three orders for new wide-body engines. Meanwhile, the British engine maker sees the COVID-19 outbreak as an “unknown unknown” with regard to both scale and duration. However, it confirmed that its supply chain, including that from China, had not experienced any disruptions. According to Reuters news agency, Rolls-Royce currently expects core operating profit to grow by about 15% this year, with at least £1 billion of free cash flow. (£1.00 = US\$1.28 at time of publication.)

**INFORMATION TECHNOLOGY**

**Sabre Corporation**, a leading software and technology company powering the global travel industry, has signed an agreement with Asia Pacific’s Regional Airline **Vistara**. This new deal will enable the Indian carrier to optimize its partnerships with other airlines while enhancing its scheduling capabilities using components of the Sabre Commercial Platform. The full-service carrier, which operates on domestic India routes as well as international flights to Singapore, Bangkok, Dubai, Colombo and Kathmandu, has adopted Sabre Codeshare Manager and partner solution Sabre Schedule Manager.

**American Airlines to invest US\$550 million in Tulsa maintenance base**



Tulsa team members at the announcement of the US\$550 million investment

Photo: AA

American Airlines will invest US\$550 million at its base maintenance facility in Tulsa (Tech Ops – Tulsa). It is American’s largest base maintenance facility and is an integral part of operating the carrier’s fleet of nearly 1,000 mainline aircraft safely and reliably. Tech Ops – Tulsa is home to more than 5,500 team members — 600 of those positions were added in 2019 — and conducts nearly half of the airline’s overall maintenance work. The new project includes construction of a new wide-body-capable hangar and base support building. The investment also provides for improvements to the existing infrastructure, including roof replacements, utility and IT upgrades, and ramp repairs. This investment underscores American’s long-term commitment to the Tech Ops – Tulsa team, State of Oklahoma and City of Tulsa by making improvements to ensure success.

**Recaro Aircraft Seating equips Vistara’s first Boeing 787-9 aircraft**



PL3530 premium-economy seats

Photo: Recaro

Vistara has ordered Recaro seats for its premium-economy and economy-class cabins on its brand-new fleet of Boeing 787-9 Dreamliners, which began delivery at the end of February. This makes Vistara the first Indian airline with a Boeing 787-9 Dreamliner. Recaro Aircraft Seating has installed its PL3530 premium-economy and CL3710 economy-class seats on Vistara’s first Boeing 787-9 Dreamliner. “Recaro is always looking to expand its footprint and this is a fantastic opportunity to collaborate with a new partner,” said Dr. Mark Hiller, CEO and Shareholder at Recaro Aircraft Seating. “There can be a lot of challenges when entering a new market but having a strong partner can make all the difference.”

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**Norwegian** carried 1,955,585 customers in February. Traffic for the month was down 21%, while capacity was down 22% compared to February 2019. The punctuality for February was 84.2% and the load factor was 81.7%, up 0.2 points compared to the previous year.

In February, **Finnair** carried 1,035,000 passengers which is 4.0% more than in the corresponding period of 2019. The overall capacity (ASK) increased in February by 2.9%. Finnair's traffic (RPK) decreased by 1.7%. The leap day had a growth contribution of some 3% to passengers, ASK and RPK, as there was an additional day in February compared to 2019. The Passenger Load Factor decreased year-on-year by 3.6% points to 76.1%.

European airline **Wizz Air** has concluded the definitive agreement with its partner **Abu Dhabi Developmental Holding Company** (ADDH), to jointly establish **Wizz Air Abu Dhabi**. The low-cost airline is set to launch its operations at Abu Dhabi International Airport in Fall 2020. The agreement is a major milestone in the launch of Wizz Air Abu Dhabi, a new Emirati low-cost airline based in the UAE's capital. Wizz Air Abu Dhabi plans to start operations in the second half of the year, bringing low fares paired with a high-quality on-board experience to a range of destinations across Europe, the Middle East, Asia and Africa. With Wizz Air Abu Dhabi's recruitment activities set to commence in the coming months, the agreement will create new job opportunities, boost the economy and attract more visitors to Abu Dhabi. The announcement is also in line with Abu Dhabi's AED 50bn (US\$13.6m) accelerator program Ghadan 21, which is driving the emirate's development through investing in business, innovation and people. Following the agreement, the airline development team has already initiated the process with the UAE General Civil Aviation Authority to obtain the carrier's Air Operator Certificate and Operating License.

As an effect of the COVID-19 outbreak and global measures taken to mitigate the spread of the virus, the demand for international air travel has been affected. In response to the lower demand, **SAS** has announced that in the next couple of months it will seek to reduce part of its short-haul network capacity. Furthermore, and in addition to the already suspended flights to/from Mainland China, SAS will suspend flights to Hong Kong from March 5. In order to mitigate the revenue impact from the reduced demand, SAS is pursuing a number of cost-reduction initiatives. In the short term, reduced capacity will lower flight-related costs, such as jet fuel, airport and other fees. SAS is also implementing other measures such as cuts in administration and personnel

**MILITARY AND DEFENCE**

**Lockheed Martin delivers 500<sup>th</sup> F-35 aircraft**



*Photo: The 500<sup>th</sup> F-35 delivered by Lockheed Martin takes flight from the company's Fort Worth, Texas, factory*

Lockheed Martin and the F-35 Joint Program Office have delivered the 500th F-35 aircraft. In February, the F-35 enterprise surpassed 250,000 flight hours. The 500th production aircraft is a U.S. Air Force F-35A, to be delivered to the Burlington Air National Guard Base in Vermont. The 500 F-35s include 354 F-35A conventional take-off and landing (CTOL) variants, 108 F-35B short take-off/vertical landing (STOVL) variants and 38 F-35C carrier (CV) variants for the U.S. and international customers. The 250,000 flight hours include all F-35s in the fleet comprised of developmental test jets, training, operational, U.S. and international aircraft.



*Photo: Honeywell's Boeing 757 connected aircraft*

**Honeywell** has completed ground testing and flight testing of the JetWave connectivity system in China on its Boeing 757 aircraft. This is a major milestone for Honeywell that will greatly increase its support of China's in-flight, high-speed satellite communication. Based on proven performance and recognition in the market, JetWave is designed for the China's Ka-band satellite network. It provides reliable and high-speed cabin connectivity. JetWave has speeds of up to 180 Mbps, so passengers can expect the same high-speed Wi-Fi experience at 40,000 feet as they do on the ground, fully meeting business and entertainment connection demands. In March 2019, Honeywell announced the appointment of **Air Esurfing** as the sole distributor of JetWave in China.

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expenses, implementation of a hiring freeze, and postponement of non-critical projects, marketing and promotional campaigns. Measures related to personnel expenses may include temporary layoffs, voluntary leave, early retirement or other initiatives. Given the uncertainty surrounding the COVID-19 outbreak and its impact on overall demand for air travel, SAS withdraws its fiscal year 2020 guidance provided to the market on December 5, 2019. At this stage, it is too early to assess the full impact on SAS operations and financial outcome and therefore not possible to give a more accurate guidance.

The **International Air Transport Association (IATA)** has released data for global air freight markets showing that demand, measured in cargo ton kilometers (CTKs), decreased by 3.3% in January 2020, compared to the same period in 2019. “January marked the tenth consecutive month of year-on-year declines in cargo volumes. The air cargo industry started the year on a weak footing. There was optimism that an easing of US-China trade tensions would give the sector a boost in 2020. But that has been overtaken by the COVID-19 outbreak, which has severely disrupted global supply chains, although it did not have a major impact on January’s cargo performance. Tough times are ahead. The course of future events is unclear, but this is a sector that has proven its resilience time and again,” said Alexandre de Juniac, IATA’s Director General and CEO. Cargo capacity, measured in available cargo ton kilometers (ACTKs), rose by 0.9% year-on-year in January 2020. Capacity growth has now outstripped demand growth for 21 consecutive months. It is unlikely that the COVID-19 outbreak had very much to do with January’s weak performance. Lunar New Year in 2020 was earlier than in 2019. This skewed 2020 numbers towards weakness as many Chinese manufacturers would be closed for the holiday period. February performance will give a better picture of how COVID-19 is impacting global air cargo. Airlines in Asia-Pacific and Europe suffered sharp declines in year-on-year growth in total air cargo volumes in January 2020, while North American and Middle East carriers experienced a more moderate decline. Latin America and Africa were the only regions to record growth in air freight demand compared to January 2019.

**Ryanair Group (Ryanair and Lauda)** has reported its traffic statistics for February 2020, reporting a traffic increase of 9% compared to the previous year and a load factor of 96%, the same as in February 2019. Since Ryanair has cancelled up to 25% of its Italian short-haul program (mainly to/from and within Italy) for the three-week period from March 17 to April 8, traffic and load factor in the months of March and April are likely to be lower than normal due to the fall in bookings during that



STARLUX Airlines

Photo: AirTeamImages

**Sabre Corporation** has signed a new partnership with Taiwan’s newest carrier, **STARLUX Airlines**. The long-term agreement to connect to Sabre’s GDS platform, will provide the airline access to Sabre’s rich global travel marketplace, comprising over 425,000 travel agents worldwide; supporting the carrier as it aims to become a leading luxury, full-service boutique carrier within the Asia Pacific region and beyond. With its inaugural flights to Penang (Malaysia), Da Nang (Vietnam), and Macau (China), having taken off in January, STARLUX Airlines aims to grow its passengers amid extensive plans to grow its fleet and unveil new destinations throughout Asia and North America over the coming years. In addition to providing the carrier with the ability to market and feature its content to Sabre’s extensive global network of travel agents, the agreement will also give STARLUX the capacity to leverage a wide range of services under the Sabre GDS to promote, personalize and sell its products to travel management companies, corporate travel departments, and travel agents around the world.

**TLX Cargo**, part of **TLX Insulation**, a technology leader in cool chain fabrics, has launched world’s first cargo cover to be built from viral barrier material to aid in the fight against coronavirus (COVID-19). The TLX WEB15 cover fabric aims to seal cargo against viruses during transportation. Says Commercial Director, Thomas Hunt: “Our clients have been faced with the problem that although they can control their products against viral contamination within their premises, they are unable to assure their customers that the container itself is not contaminated. We took the problem to our partner company Web Dynamics, who have over twenty years-experience in manufacturing viral barrier materials. The result of these discussions is TLX



Photo: TLX WEB15

WEB15, a breathable, waterproof, cargo cover built from viral barrier material, that we are now able to offer our customers world-wide.” The material has passed testing by **Nelson Laboratories** in Salt Lake City, USA, the world’s leading laboratory for viral barrier testing. The Web 15 fabric used in this new cover passed the Nelson test when the bacteriophage applied at a pressure of 14 kPa (2 pounds per square inch) failed to permeate from one side of the material to the other. The TLX WEB15 cargo cover is a two-part system involving a cover and base, sealed with tape. There is no stitching in the product. The cover, that exhausts water vapor, uses material that is a barrier to viruses between 0.1 – 0.2 microns. This enables our customers to deliver their product confident that each pallet load is transported and delivered under controlled conditions irrespective of the external environment.

**OTHER NEWS**

period in response to the Covid-19 virus outbreak in a number of European countries.

**Finnair**, the airline specialized in connecting Europe and Asia, and Neste, one of the largest producer of sustainable aviation fuel from renewable waste and residues, have signed a new agreement which will gradually and considerably increase Finnair's use of sustainable aviation fuel in its operations. The new partnership will be a key contributing factor in Finnair's long-term target of carbon neutrality. Sustainable aviation fuels are a key part of the long-term solution for reducing the CO2 footprint of aviation, as they reduce CO2 emissions by up to 80% compared to fossil fuels. The partnership will not only increase Finnair's use of sustainable aviation fuel, but it will also boost the production of sustainable aviation fuel in Finland. Growing availability is also important in order to make sustainable aviation fuel more widely used and affordable for Finnair's future flight operations.

The extended refusal of entry of the **Israeli authorities**, which apply from March 6, also for travelers from **Germany, Switzerland and Austria**, among others, will lead to a considerable drop in demand for flights to Israel. As a result, **Lufthansa, SWISS and Austrian Airlines** will cancel all their flights to Tel Aviv and Eilat as of Sunday, March 8, 2020 for the remaining winter timetable period until March 28. The **Lufthansa Group** sees itself forced to make this cancelation for economic and operational reasons, as many passengers are no longer entitled to enter the country. So far Lufthansa has canceled 7,100 European flights in March. Due to the exceptional circumstances caused by the spread of coronavirus and the decline in demand, the Lufthansa Group has decided to reduce capacity by up to 25%. The route cancellations and frequency adjustments correspond to a calculated capacity of 150 aircraft, of which 125 are short- and medium-haul, and are 25 long-haul. The Lufthansa Group fleet currently comprises around 770 aircraft, including some 180 long-haul aircraft. In addition, the Lufthansa Group has announced further cost-cutting measures in the areas of personnel, materials and project budgets.

**Allegiant Travel Company** has announced plans to establish a base of operations at **Concord-Padgett Regional Airport** (USA). The Las Vegas-based company will invest US\$50 million to establish the new base in Concord, creating at least 66 high-wage jobs and housing two Airbus aircraft. The company, which focuses on linking travelers in small-to-medium size cities to world-class leisure destinations, plans to begin its base operations in Concord on October 7, 2020. Concord-Padgett Regional Airport will become the airline's 21<sup>st</sup> aircraft base.



L3Harris RealitySeven Full Flight Simulator

Photo: BAA Training

Aviation training center **BAA Training** and **L3Harris Technologies**, a global aerospace and defense technology innovator, have signed a multimillion-dollar contract under which BAA Training will acquire nine RealitySeven full-flight simulators. Fulfilling its global expansion plan, BAA Training shall put into operation nine full-flight simulators from both the **Boeing** and **Airbus** aircraft family, including the Boeing 737NG, Airbus A320neo, and other types, in two

phases. The first four full-flight simulators are scheduled to be assembled, approved and ready for training in nine to twelve months, and will be placed at BAA Training headquarters in Vilnius and the BAA Training Spain training center in Barcelona. The second phase will be implemented by the first quarter of 2022, placing the remaining five full-flight simulators at BAA Training centers in Spain, Vietnam and Italy, where BAA Training is also set to open a training center. According to market specialists, the share of narrow-body aircraft in the global fleet will increase from 58% to 66% by 2029. Furthermore, Boeing and Airbus will produce 98% of all narrow-bodies delivered.



Photo: Lufthansa Group will move from TXL to BER in November 2020

As of November 8, 2020, all **Lufthansa Group** flights will take off and land at the new Berlin airport **Berlin Brandenburg, BER**. The kickoff is scheduled for October 31, 2020: over the course of a week, the flight operations of the German capital will move from **Tegel Airport, (TXL)**, to the new Berlin Brandenburg Airport (BER). Lufthansa will bid Tegel farewell on November 7, the last scheduled departure is flight LH1955 from Berlin to Munich. The BER premiere will then take place the next morning at 6:30 a.m. on November 8, flight LH173 from Berlin to Frankfurt is scheduled to take off from the capital's new airport. **Austrian Airlines, SWISS and Brussels Airlines** will commence operations at BER together with Lufthansa on November 8. According to current plans, Eurowings will have already had its first flight from BER on November 4.

**INDUSTRY PEOPLE**



Christina Trelle

- **Christina Trelle** has been named the new Head of Human Resources at SWISS with effect from today. She takes over from **Christoph Ulrich**, who will oversee strategic HR projects. Trelle has played a pivotal role in Human Resources at SWISS as Head of HR Management for CCO and CFO Divisions. From 2003 to 2012, when she joined SWISS as Head of People Development and Training, Trelle held various functions at Lufthansa Cargo, including Head of Exports and Head of People Development.

- Boeing has named **Susan Doniz** as the company's Chief Information Officer and Senior Vice President of Information Technology and Data Analytics, effective in May. She will succeed **Vishwa Uddanwadiker**, who has served as an interim capacity since October 2019. In this role, Doniz will oversee all aspects of information technology, information security, data and analytics for the company. She will also support the growth of Boeing's business through IT- and analytics-related revenue-generating programs. She will report to Boeing President and CEO **David Calhoun**, serve on the company's Executive Council and be based in Chicago.



Vytyis Zalimas

- Jet Maintenance Solutions (JET MS), a global provider of integrated aircraft maintenance, repair and overhaul solutions for business and regional aviation, has appointed **Vytyis Zalimas** as the new Chief Executive Officer (CEO) of JET MS, effective March 9, 2020. Zalimas has been leading and transforming different sales and customer care teams for more than 12 years at ICT, Banking and Aviation industries. For the past five years, he held the position of Head of Corporate Customers at Telia Company and Head of Contact Center at a major banking

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institution in the Baltic Countries.



Richard Wittels

- General Electric Co (GE) has announced that its former CEO, **Jack Welch**, has died at the age of 84. Welch was single handedly responsible for the transformation of a company best known for its production of light bulbs into the USA's most valuable public company. In the 20-year period with Welch at the helm, GE went from a conglomerate with a market value of US\$12 billion into a corporate giant with a US\$410 billion value.

- Farnborough Air-port has appointed a new Business Development Manager, **Richard Wittels**, effective immediately. Wittels brings to this position over 14 years of experience in the business aviation industry through his work at TAG Aviation U.K. He will be responsible for identifying opportunities aimed at further developing the business and will also focus on demonstrating to the industry and customers, the complete portfolio of services and facilities available at the airport.



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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	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
A330-200	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	Trent 772B-6	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
<b>AE3007 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(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
<b>CF34 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
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				
(2) CF34-10E6	Now - Lease	DASI	Joe Hutchings	joe.hutchings@dasi.com	+1 954-478-7195
(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
<b>CF6 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(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	Castlelake	Stuart MacGregor	stuart.macgregor@castlelake.com	+442071906138
(1) CF6-80C2B1F	Now - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
<b>CFM Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(2) CFM56-5B (all thrust levels)	Now - Sale / Lease	Conrail Aviation	Kevin Milligan	kevin@conrail.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)777224895
(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)777224895
<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	jcmorin@logix.aero	+33.6.4782.4262
(2) PW127E/F	Now - Sale/Lease/Exch.		Remi Krysz	rkrysz@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 Cowls & Fan Cowls	Now - Sale/Lease/Exch.				
Trent 892 Inlet Cowls and Fan Cowls	Now - Sale/Lease/Exch.				
CFM56-5B Inlet Cowls and Fan Cowls	Now - Sale/Lease/Exch.				
V2500-A5 Inlet Cowls & Fan Cowls	Now - Sale/Lease/Exch.				
CF6-80E Trust Reversers, Inlets & Fan Cowls	Now - Sale/Lease/Exch.				
APUs (2) APS2300	Now - Sale/Lease/Exch.				
APUs (2) GTCP331-500B, (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
GTCP85-98DHF 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) GTCP36-150RJ, (2) GTCP36-100M,	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					
GTCP131-9A (2), GTCP131-9B(2)	Now - Lease	REVIMA APU	Olivier Hy	olivier.hy@revima-apu.com	+33(0)235563515
GTCP331-200, GTCP331-250	Now - Lease				
APS500C14(3), APS1000C12(2), APS2000	Now - Lease				
APS2300, APS3200(2), APS5000(2)	Now - Lease				
PW901A(4), PW901C(2)	Now - Sale / Lease				
TSCP700-4E	Now - Sale				
(1) 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) GTCP131-9B	Now - Sale / Lease	DASI	Chris Glascock	Chris.Glascock@dasi.com	+1 954-801-3592
(4) GTCP131-9A, (1) GTCP131-9B, (2) GTCP331-350		GA Telesis		apu@gatelesis.com	+1-954-676-3111
(1) GTCP331-200ER, (1) GTCP331-550, (1) APS3200					
GTCP131-9A, GTCP131-9B, GTCP331-350C	Now - Sale/Lease/Exch.	Logix.Aero	Jean-Christian Morin	jcMorin@logix.aero	+33.6.4782.4262
GTCP331-500B, GTCP331-200/250, APS5000			Rich Lewsley	rlsley@logix.aero	+1 602 517 8210
APS3200, APS2300					
(1) APU GTCP331-500	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