

Weekly Aviation Headline News

WORLD NEWS

AeroSystems acquires Bombardier assets

AeroSystems Holdings announced it has entered into a definitive agreement to acquire select assets of Bombardier aerostructures and aftermarket services businesses in Belfast, Northern Ireland (known as Short Brothers); Casablanca, Morocco; and Dallas, United States, for cash consideration of \$500 million. The acquired Bombardier operations employ more than 4,000 people at three sites comprising approximately 3.4 million square feet. The backlog of work includes long-term contracts on the Airbus A220 and A320neo, along with Bombardier business and regional jets.

JAL announces 2020 expanded network

Japan Airlines (JAL) has revealed details of expansion on its international network from Tokyo-Narita International Airport in 2020. The carrier will introduce new routes to Vladivostok, Russia at the end of February and Bengaluru, India in March. In addition, JAL will offer a double-daily service over the Pacific on their San Francisco route by adding a new nonstop to Narita and will add a second flight to Guam for travellers seeking to relax at the popular resort destination.

Gatwick trails new boarding technique

London Gatwick is trialling a new boarding technique in a bid to avoid queues and congestion at gates. During the two-month trial, large digital screens and staff will be placed at Gate 101 to show passengers the order to board. A range of sequences will be trialled to test whether they make the process faster, more relaxing and, potentially, reduce the need for large numbers of passengers to rush forward at any stage.



The M90 faces U.S. scope clause restrictions.

Photo: Mitti Blume

Trans State cancels Spacejets

While Mitsubishi pitches for larger variant

Japanese aircraft OEM, Mitsubishi Aircraft Corporation has confirmed that U.S. airline holding company Trans States Holding (TSH) has terminated its contract for the SpaceJet M90 – 50 firm orders with 50 options – formally known as the MRJ programme. The aircraft were destined for TSH's three U.S. regional airlines.

The OEM says after close discussions, the decision was made to cancel the contract for the Mitsubishi SpaceJet M90 – 50 firm orders with 50 options – as the variant did not meet the requirements of the United States market. Mitsubishi says future discussions will be

focused on the scope compliant SpaceJet M100 aircraft.

A scope clause is part of a contract between a major airline and the

“We have since shifted our strategy to be responsive to the market realities in the U.S.,”

Mitsubishi Aircraft Corporation President Hisakazu Mizutani.

trade union of its pilots that limit the number and size of aircraft that may be flown by the airline's regional airline affiliate.

“TSH has been a long-time proponent of our aircraft program and we look forward to continuing discus-

sions regarding a potential order for the SpaceJet M100 product,” said Mitsubishi Aircraft Corporation President Hisakazu Mizutani. “When we established our contract

with TSH, the outlook on the regional market was very different. Scope clause has not relaxed as anticipated. We have since shifted our strategy to be

responsive to the market realities in the U.S., in partnership with our airline customers. We are confident that the SpaceJet M100 presents us with a market-leading aircraft for North America.”

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MRO

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In June of this year, the company introduced the Mitsubishi SpaceJet M100, the only clean-sheet regional aircraft in its category that also meets U.S. scope clause requirements. The product has received commitments for up to 115 aircraft from North American customers. Delivery of the SpaceJet M100 will build off the certification and delivery of the SpaceJet M90, the foundational member of the product family.

“The SpaceJet M100 is designed to enhance passenger satisfaction and bring more profit potential to airlines and operators around the world,

including the U.S., the biggest market for regional aircraft,” said Alex Bellamy, Mitsubishi Aircraft Corporation Chief Development Officer. “Certifying the SpaceJet M90 platform is our top priority and a critical step toward meeting global market demand for this best-in-class family of regional aircraft.”

The cancellation is widely seen as a blow to the already delayed aircraft programme but prospects for the larger M100 look positive.

AIRCRAFT & ENGINE NEWS

CFM56 engines fly out at APOC Aviation

APOC Aviation, the innovative aircraft and engines leasing, trading and part-out specialist, has sold two CFM56-3 engines (Serial numbers: 856622/857283) in a multi-million-dollar transaction with a national carrier. Both are now installed on Boeing 737-300 aircraft. With one engine fresh out of the shop and each having a 4,000 flight-cycle capability before servicing, these engine assets are the first in a series of transactions underway at APOC. Anca Mihalache, VP Engine Trading – APOC Aviation, is spearheading the Company’s diversification into the engine arena: “We are focusing on supplying engines with a range of flexible finance options, our customers need to ensure they can remain in profitable operation with minimized downtime and it is our mission to provide engines that are ready to fly supported by our stock of surplus parts.”

Aergo Capital announces acquisition and placement of an ATR-72 600 with Afrijet Airlines

Aergo Capital (Aergo) has acquired one 2015 vintage ATR-72 600. The aircraft was delivered under an operating lease to Afrijet Airlines based in Gabon. The aircraft, bearing a manufacturer serial number 1285, is the fourth aircraft the Ireland-based lessor has placed with Afrijet. Following this transaction, Aergo’s owned and managed fleet stands at 49 aircraft.

Elix Aviation Capital delivers one Dash 8-202 to Field Aviation Company

Elix Aviation Capital has delivered one Dash 8-202, MSN 529, under a purchase by Field Aviation Company, headquartered in Mississauga Canada. This aircraft will undergo extensive modifications for onward sale to a third party.

GE Aviation and Hybrid Project team to provide commercial high-endurance vertical take-off and landing UAV



Hybrid Project’s SuperVolo UAV

Photo: GE Aviation

GE Aviation has teamed up with Hybrid Project to provide a vertical take-off and landing (VTOL) UAV designed for high-endurance commercial applications at scale. Flight testing will commence in Q4 this year with commercial availability is targeted for Q1 2020. The agreement Hybrid Project’s 35-pound hybrid-powered SuperVolo VTOL UAV enabled with a full stack airborne computing hardware platform, flight and safety management, and integration from GE Aviation and Auterion. GE Aviation’s computing platform enables flight control and airborne computing power at the edge while maintaining an independent and authoritative safety controller. Auterion’s Enterprise PX4 operating system resides on the vehicle, in the cloud, and the ground station. This integration is the result of an agreement announced earlier this year between GE Aviation and Auterion to provide an all-in-one hardware and software platform for commercial drones. Hybrid Project’s SuperVolo has been designed from the ground up with an emphasis on endurance flights, ease of maintenance, and being modular. The combined system is comprised of technologies and services which have the capability of enabling commercial operations in complex environments while meeting regulatory requirements and achieving mission outcomes.

C&L Aerospace completes sale of Saab 340B+ to Montrose Global

C&L Aerospace, a C&L Aviation Group company, has completed the sale of one Saab 340B+, MSN 365, to Montrose Global Aircraft Leasing who has plans to lease the aircraft to Air Rarotonga based out of the Cook Islands. This is the second

Saab 340 B+ sold by C&L, that will be utilized by Air Rarotonga in the last year. MSN 365 is one of ten Saab 340B aircraft C&L agreed to purchase from Japan Air Commuter (JAC) as part of its fleet renewal. Deliveries began in 2016 and will run through early 2020.

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AIRCRAFT & ENGINE NEWS

Embraer delivers 17 commercial and 27 executive Jets in third quarter 2019

Embraer has delivered a total of 44 jets in the third quarter of 2019 (3Q19), of which 17 were commercial aircraft and 27 were executive jets (15 light and 12 large). As of September 30, the firm order backlog totaled US\$16.2 billion. In the beginning of 3Q19, Embraer signed a contract with SkyWest for a firm order of seven E175 jets in a 70-seat configuration. SkyWest will operate the aircraft for Delta. The order has a value of US\$340 million, based on 2019 list prices, and was already included in Embraer’s 2019 second-quarter backlog as an “undisclosed” customer. Deliveries are expected to begin in the fourth quarter of 2019. In the third quarter, Embraer also delivered its first E195-E2, the largest of the three members of the E-Jets E2 family of commercial aircraft. The recipients were AerCap, the aircraft leasing company, and Azul Linhas Aéreas Brasileiras. Azul is the global launch operator for the E195-E2 and has placed firm orders for 51 of the type. The airline will receive another five aircraft in 2019. In the Executive Jets segment, Embraer has announced a purchase agreement with Flexjet for a fleet of Praetor 500, Praetor 600 and Phenom 300 jets. The announcement was made during the 2019 National Business Aviation Association’s Business Aviation Convention and Exhibition (NBAA-BACE), in Las Vegas, Nevada. Valued at up to US\$1.4 billion, at current list prices, this deal was included in the 2019 second-quarter backlog, with deliveries starting in the fourth quarter of 2019.

Aurigny is launch customer for ClearVision with company’s first ATR 72-600

ATR has delivered the first of three ATR 72-600 aircraft to Aurigny. By replacing its fleet of three ATR 72-500 aircraft with the -600 Series, Aurigny will optimize its operations. The ATR 72-600 burns up to 40% less fuel and emits 40% less CO2 compared to a regional jet. The Guernsey-based airline will also further benefit from -600 Series’ latest-generation Standard 3 avionics suite and is the launch customer for the ClearVision™ Enhanced Vision System (EVS). The EVS will provide pilots with outstanding vision and situational awareness during conditions of reduced visibility. In the cabin, Aurigny’s passengers will benefit from the -600 Series’ modern Armonia cabin which will introduce the latest standards of comfort, offering more space for luggage in overhead bins and providing passengers 18” wide seats.



Aurigny to become the launch customer for ClearVision on its new ATR 72-600
Photo: ATR

Air Premia announces commitment for five Boeing 787 Dreamliner jets



Korean airline Air Premia

Photo: Boeing

Korean startup Air Premia plans to buy five Boeing 787-9 Dreamliner airplanes, following an agreement to lease three 787-9 jets from Air Lease Corporation earlier this year. Air Premia, which plans to launch operations in 2020, is poised to become South Korea’s second Dreamliner operator. With its base at Seoul Incheon International Airport, the carrier will initially operate

regionally in Asia before expanding its network to Los Angeles and San Jose by 2021. The commitment, valued at US\$1.4 billion at list prices, will be reflected on Boeing’s Orders & Deliveries website when it is finalized.

Helvetic Airways takes delivery of first E190-E2 jet

Zurich, Switzerland-based Helvetic Airways officially received its first E190-E2 jet from Embraer. The airline has a contract for a firm order of 12 jets of this model, and purchase rights for a further 12 E190-E2s, with conversion rights to the E195-E2, bringing the total potential order up to 24 E-Jets E2s. This E190-E2 aircraft marks the start of Helvetic’s fleet renewal program. The purchase rights for a further 12 aircraft (E190-E2s or E195-E2s) will enable Helvetic Airways to grow according to market opportunities. Helvetic Airways is configuring the E190-E2 in a single-class layout with 110 seats and will deploy the aircraft on several domestic and international routes.



Helvetic Airways takes delivery of its first E190-E2 jet

Photo: Embraer

TRANSITIONING out of 737NG or A320 fleets? FORECASTING engine maintenance costs?

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IndiGo signs for 300 A320neos – brings total Airbus order to 730 aircraft



IndiGo signs for 300 A320neo Family aircraft

Photo: Airbus

With the signing of its latest order for a combined total of 300 A320neo, A321neo and A321XLR Airbus aircraft announced October 29, InterGlobe Aviation Limited (IndiGo) has now taken its total orders for the A320 Family aircraft to 730 since it took delivery of its first A320neo in March 2016, while currently having an operating fleet of 97 A320neos. “This order is an important milestone, as it reiterates our mission of strengthening air connectivity in India, which will in turn boost economic growth and mobility. India is expected to continue with its strong aviation growth and we are well on our way to build the world’s best air transportation system, to serve more customers and deliver on our promise of providing low fares and a courteous, hassle free experience to them,” said Ronojoy Dutta, Chief Executive Officer of IndiGo. “We are pleased to partner yet again with Airbus for our next batch of Airbus

A320neo Family aircraft. The fuel-efficient A320neo family aircraft will allow IndiGo to maintain its strong focus on lowering operating costs and delivering fuel efficiency with high standards of reliability. The choice of engine manufacturer for this order will be made at a later date,” said Riyaz Peermohamed, Chief Aircraft Acquisition and Financing Officer of IndiGo. Founded in 2005, IndiGo is an Indian low-cost carrier which holds an approximate 45 percent share in the domestic market, flying to 60 domestic and 22 international destinations with its primary hub located at Indira Gandhi International Airport, Delhi.

MRO & PRODUCTION NEWS

EDM completes state-of-the-art Airbus A350 cabin trainer project with Japan Airlines

EDM, one of the leading global providers of training simulators to the civil aviation and defense sectors, has announced that the installation of Japan Airlines’ Airbus A350 Cabin Emergency Evacuation Trainer (CEET) has been completed in Tokyo, Japan. Japan Airlines’ new simulator is one of the most advanced that EDM has produced to date. This CEET has been designed and manufactured to represent the Airbus A350, which the airline has recently taken delivery of. The A350 CEET build was extensive both externally and internally, whereby all interior panels for the Cabin Trainer were replicated to truly increase the fidelity of the simulator. This included operable overhead bins, rated to hold a weight of up to 45kg.



EDM complete state-of-the-art Airbus A350 cabin trainer for Japan Airlines

Photo: EDM

Inflite The Jet Centre to house Embraer executive jets' European demo fleet

Inflite The Jet Centre, part of the Inflite group of companies, has announced that its London Stansted Airport FBO will become the new European home of Embraer's business jet demo fleet. With immediate effect, Inflite will look after the manufacturer's demo fleet, including both Phenom and Legacy demonstrators (and eventually the new Praetor 500 and 600), under dedicated terms, inclusive of handling, maintenance and hangarage. Inflite will oversee the full preparation of the demo fleet, including aircraft detailing, cleaning and presentation. Inflite Head of Customer Service Alan Barnes will be overseeing the integration of the Embraer fleet into The Jet Centre's care and will manage the interaction with the Embraer EMEA Sales Team, as well as Embraer's Flight Operations Department, which is based in Melbourne, Florida. The Embraer Executive Jet Sales team in EMEA, headed by Peter Griffith and recently bolstered with the appointment of U.K.-based Craig Lammiman as Sales Director, Northern Europe, has a dedicated office at Inflite.



The Embraer demo tour fleet set for Inflight the Jet Centre

Photo: Inflite

S7 Technics' Novosibirsk base gears up for component production for Superjet 100



S7 to produce leather seat covers for the SSJ 100 aircraft

Photo: S7 Technics

placards for the Superjet 100. Under its own EASA (Part 21G, Part 21J, Part 145) and FAP-285 approvals, S7 Technics' staff are authorized to design a required component, issue the relevant approved designer documentation, approve installation of that component on an aircraft, and produce the designed component supplying it with European-standard passport (EASA Form 1) – before finally installing it on an aircraft. The positive results of SCAC's series of audits have paved the way for S7 Technics to launch a competence center for elaborating designer documentation and producing components for Russian-made SSJ100 regional jets.

S7 Technics' production facility at Novosibirsk's Tolmachevo airport has successfully completed its latest audit by Sukhoi Civil Aircraft Company (SCAC), manufacturer of the Superjet 100 (SSJ100). Based on the results of the inspection, S7 Technics' Novosibirsk site was granted approval for the design and production of leather covers for passenger seats on the SSJ100. SCAC conducts regular annual checks of S7 Technics' Tolmachevo base. Previously, in 2017 and 2018, the manufacturer's experts approved the site for the design and production of a variety of articles from plastic, textile and leather materials, as well as

MRO & PRODUCTION NEWS

PPG AEROCRON aerospace electrocoat primer qualified by U.S. Air Force

The U.S. Air Force has qualified PPG AEROCRON™ aerospace electrocoat (e-coat) primer to provide corrosion resistance and enhanced topcoat adhesion for aircraft parts. The Air Force initially will coat test parts on a PPG e-coat system that it installed at its Advanced Technology and Training Center in Middle Georgia. The Air Force has issued Airworthiness Circular AC-19-02 to announce the primer's qualification for coating parts used on the outer surface of aircraft. The PPG e-coat primer will be added to Air Force Technical Order 1-1-8 – "Application and Removal of Organic Coatings, Aerospace and Non-Aerospace Equipment" – which will provide more detailed guidance when it is published. "The U.S. Air Force, in collaboration with PPG, is conducting field evaluations at multiple base locations of aircraft parts coated with PPG Aerocron primer," said Terry Gabbert, U.S. Air Force government lead for the project. "We are seeing firsthand that PPG e-coated parts are performing as well as or better than spray-primed control parts. With that knowledge and our experience, the Air Force made the decision to qualify PPG Aerocron primer and install the first U.S. Department of Defense e-coat system." During the e-coat process, aircraft parts are immersed into a PPG Aerocron primer bath after pretreating. An electric charge is applied to attract the non-chrome, water-based primer to the charged parts, which are then rinsed and cured.

HAECO ITM expands technical management support to Air Hong Kong's A330-300F fleet

HAECO ITM (HAECO ITM), a member of the HAECO Group, has signed an agreement with Air Hong Kong (AHK) to provide its Airbus A330-300 freighter fleet with inventory technical management support. The contract covers component MRO, repair management, component pooling, component engineering support services and AOG support. In addition to the Airbus A330-300F, HAECO ITM also provides inventory technical management support for AHK's A300-600 freighter fleet.

Air Astana extends PBH contract with AJW Group

AJW Group, the independent specialist in the global management of aircraft spares, has extended its power-by-the-hour (PBH) contract with Air Astana. AJW has provided its PBH

StandardAero to provide PT6A MRO services for Cape Air



Cape Air Cessna 402

Photo: AirTeamImages

Cape Air, a U.S. regional airline based in Hyannis, MA, has selected StandardAero to provide engine support services for its fleet of Cessna Caravan aircraft. Under the agreement, StandardAero will provide Cape Air with Pratt & Whitney PT6A turboprop engine maintenance, repair and overhaul (MRO) services from its network of overhaul facilities and service centers in North America. StandardAero is an independent Pratt & Whitney-authorized PT6A Designated Overhaul Facility (DOF) with distribution rights on certain engine models. The company supports the global PT6A operator community from four DOFs located in North America, Europe, Africa and Australasia, backed up by a global network of seven service centers and over twenty dedicated mobile repair technicians.

GAMECO, Boeing sign partnership agreement on 737-800 Boeing converted Freighter



Boeing and GAMECO agree on partnership for 737-800 Boeing Converted Freighter production line
Photo: GAMECO

Guangzhou Aircraft Maintenance Engineering Company (GAMECO) and Boeing have announced plans to launch a 737-800 Boeing Converted Freighter production line at GAMECO's Guangzhou Baiyun International Airport hangar, as the 737-800BCF program responds to growing demand. Boeing's newest freighter has achieved 130 orders and commitments since it was launched in 2016. The program is on pace to deliver 17 737-800BCFs in 2019, more than doubling last year's output. Alvey Pratt, Boeing Global Services' director, Boeing Converted Freighters said, "This partnership is great news for our customers. GAMECO is a world-class MRO provider with the proven ability to complete complex modifications on schedule, with the highest quality."

MRO & PRODUCTION NEWS

support to Air Astana, the flag carrier of Kazakhstan, on an ongoing basis since 2006. The extension to the contract sees AJW continue to provide support for the airline’s Boeing aircraft. In addition to PBH support, AJW is providing a lease package to Air Astana which will give the carrier immediate access to high-priority aircraft parts.

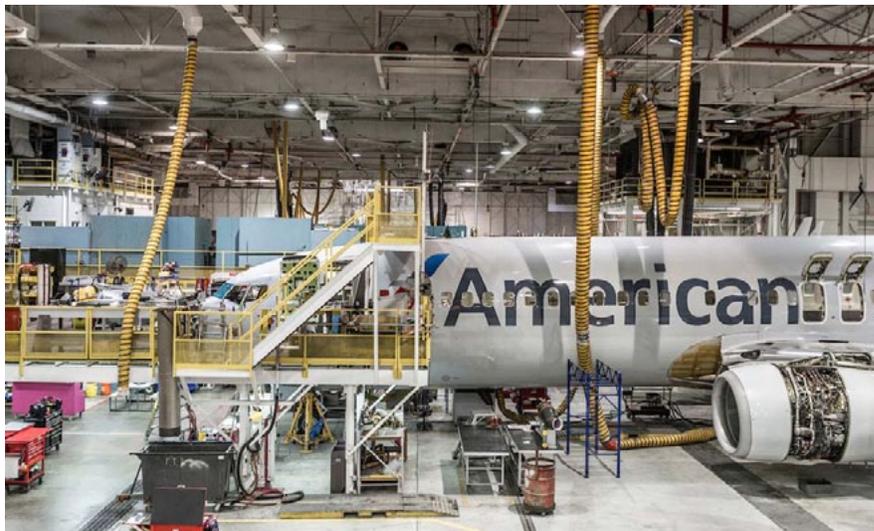
Pattonair Japan strengthens presence with new office in Nagoya

Pattonair Japan has strengthened its presence in Japan’s aerospace industry with the official opening of a new office on October 30, 2019. Pattonair Japan’s new permanent location in Nagoya signifies the global aerospace and defence supply chain service provider’s commitment to local support for its growing customer base. The move follows on from the establishment of Pattonair Japan as a Japan Trading Company in November 2018. This represented a key development in the company’s global expansion strategy, extending Pattonair’s footprint in Asia where it also operates a facility in Singapore and an office in China. Pattonair Japan supplies both OEM and MRO customers with supply chain services primarily in support of civil aircraft engines. Over the last 12 months, Pattonair Japan has signed new contracts with three major OEM sub-contractors to expand its existing customer base.

AES Global awarded Zero Passenger Configuration STC

Aerospace Engineering Solutions (AES Global), a U.K. and EU aerospace design and certification organisation, has been awarded EASA Supplement Type Certificate (STC) for Zero Passenger Configuration. This latest STC (No.10070986) issued by EASA applies to Boeing 737 and Boeing 757 variant aircraft types and allows the operator and lessors to fly aircraft legally with a zero passenger configuration. This STC is based on the latest EASA guidance regarding the approval of Incomplete Passenger Cabins as detailed in proposed EASA Certification Memorandum CM-CS-010-001.

American Airlines to add 165 Tech Ops positions in Tulsa



A Boeing 737 undergoing maintenance at Tech Ops — Tulsa Photo: American

American Airlines is hiring an additional 165 aviation maintenance technicians (AMTs) and support positions in 2019, resulting in more than 1,000 new Tech Ops positions added to the company in 2019. The newest positions will be at the airline’s maintenance base in Tulsa, Oklahoma, called Tech Ops — Tulsa. American has recently announced 400 new Tech Ops positions to assist with additional work coming to the base. The new team members, primarily Federal Aviation Administration-licensed mechanics, will focus on interior modifications to Boeing 737-800 and Airbus A321 aircraft to drive operational reliability and create a consistent product across American’s fleet. “The work we do in Tulsa is an important part of maintaining and delivering safe and reliable aircraft for American’s customers and team members,” said Erik Olund, Managing Director of Base Maintenance for American. “With these additional positions, we’ll be situated to provide the best operational performance and consistent experience that our customers expect and deserve.”

Airbus inaugurates test facility for propulsion systems of the future



Grazia Vittadini, Ilse Aigner inauguration ceremony Photo: Airbus

Airbus Chief Technology Officer Grazia Vittadini and Airbus Defence and Space CEO Dirk Hoke have officially opened the E-Aircraft Systems House test facility at Airbus’s Taufkirchen/Ottobrunn site alongside Ilse Aigner, President of the Bavarian State Parliament. The test centre will provide a space to research technologies for alternative propulsion systems and energy sources – such as electric motors for unmanned aerial vehicles, hybrid propulsion systems and hydrogen for combustion or synthetic fuel use. The building, which allows complete systems to be integrated and tested, is the first test centre of its kind worldwide. Grazia Vittadini said: “The E-Aircraft Systems House represents a real competitive advantage for Airbus. With its 3,000 m2 test area, we now have the infrastructure to move the transition to emission-neutral flight forward at an even faster pace.”

FINANCIAL NEWS

Alaska Air Group reports third-quarter 2019 results

Alaska Air Group has reported net income for the third quarter of 2019 under Generally Accepted Accounting Principles (GAAP) of US\$322 million compared to net income of US\$217 million in the third quarter of 2018. Alaska has reported net income for the third quarter of 2019, excluding merger-related costs and mark-to-market fuel hedge accounting adjustments, of US\$326 million, compared to US\$237 million in the third quarter of 2018. This quarter's adjusted results compare to the First Call analyst consensus estimate of US\$2.52 per share. The Group generated US\$1.4 billion of operating cash flow in the first nine months of 2019.

MTU posts net income of €391.7 million for first nine months of 2019

In the first nine months of 2019, MTU Aero Engines generated revenues of €3,403.7 million, up 3% on the previous year (1-9/2018 €3,318.7 million). The group's operating profit increased by 10% from €508.9 million to €557.7 million. The EBIT margin rose from 15.3% to 16.4%. Net income increased by 8% to €391.7 million (1-9/2018: €362.8 million). The area in which MTU recorded the highest revenue growth in the first nine months of 2019 was the commercial engine business, where revenues increased by 10% from €1,037.0 million to €1,137.8 million. The main source of these revenues was the V2500 engine for the classic A320 family as well as the PW1100G-JM for the A320neo and the GENx engine that powers the Boeing 787 and 747-8. Revenues in the military engine business increased by 7% to €323.6 million (1-9/2018: €303.1 million). The EJ200 Eurofighter engine was the main source of these revenues. In the commercial maintenance business, revenues in the first nine months of 2019 remained at the previous year's level at €1,995.9 million (1-9/2018: €2,019.7 million). "In terms of organic growth, revenue in the commercial MRO segment has increased by around 8%," said CFO Peter Kameritsch. This growth was driven mainly by the V2500 engine, followed by the CF34 family of regional and business jet engines. (€1.00 = US\$1.11 at time of publication.)

ANA Holdings reports financial results for the six-month period ended Sept. 30, 2019

ANA Holding (ANA HD) has reported operating revenue of 1,055.9 billion yen, up 1.7% when compared to the same period in 2018, while operating income was 78.8 billion yen, down 25%

Virgin Galactic shares jump on NYSE debut



Photo: Virgin Galactic visits the New York Stock Exchange to celebrate its listing

Monday, October 28, saw Sir Richard Branson's Virgin Galactic Holdings Inc. (Virgin Galactic) become the first space-tourism enterprise to go public as it traded on the New York Stock Exchange (NYSE). The listing was the result of a merger with a currently trading shell investment company, Social Capital Hedosophia, and has now secured critical funding for the future of the company's participation in what is being referred to as the "new space race", which includes Elon Musk's Space Exploration Technologies Corp. (SpaceX) and Jeff Bezos' Blue Origin. Sri Lanka-born Chamath Palihapitiya, Social Capital's Hedosophia's founder, will contribute US\$100 million to the venture and become its chairman. According to Virgin Galactic, the public offering, which involves approximately 40% of total stock, values the company at US\$2.4 billion. The remainder of the company is owned by Branson and backers from Abu Dhabi. The new entity climbed 5.1% to US\$12.40 at 12:34 p.m. in New York on Monday, its first day trading under the ticker SPCE. The shares rose 11% Friday after the combination was completed, handing Virgin Galactic more than US\$450 million in primary proceeds. While SpaceX has focused on transporting satellites, Virgin Galactic has chased the tourism market, with a first commercial flight planned for next year. Blue Origin intends to take payloads and tourists to the edge of space on an 11-minute flight. Branson said last week that Virgin Galactic is also interested in developing hypersonic airline flights after Boeing Co.'s future-technologies arm pledged US\$20 million for a minority stake. The consequence could mean inter-city travel in the U.S. that would take only minutes and long-haul flights to Australia taking only a few hours.

due to an increase in operating expenses. Ordinary income was 81.5 billion yen, down 20.8%. Net income attributable to owners of the parent decreased 23.0% year-on-year to 56.7 billion yen. (US\$1.00 = 108.85 yen.)

Outlook for the FY2019 (April 2019 – March 2020)

When reviewing the first half of the fiscal year, operating revenue increased by 17.9 billion yen year-on-year, but fell short from the company's plan due to decline in cargo demand mainly due to U.S.-China trade issues and a slowdown in business demand in international passenger services. ANA HD forecasts that this

trend will continue in the second half of the fiscal year alongside intensifying competition in the LCC business. Taking these factors into consideration, the forecast for FY2019 operating revenue is 2,090.0 billion yen, 60.0 billion yen lower than the initial forecast. Under these circumstances, ANA HD has decided to also adjust the forecast and decrease operating income to 140.0 billion yen, ordinary income to 137.0 billion yen, and net income attributable to owners to the parent to 94.0 billion yen. (US\$1.00 = 108.85 yen.)

FINANCIAL NEWS

Air Canada posts third-quarter net income of CA\$636 million

Air Canada has reported third-quarter 2019 EBITDA (earnings before interest, taxes, depreciation, amortization and impairment) of CA\$1.472 billion compared to third-quarter 2018 EBITDA of CA\$1.351 billion, an increase of CA\$121 million or 9%. The airline reported third-quarter 2019 operating income of CA\$956 million compared to third-quarter 2018 operating income of CA\$923 million. On a capacity reduction of 2.1%, third-quarter system passenger revenues of CA\$5.164 billion increased CA\$146 million or 2.9% from the same quarter in 2018. The increase in system passenger revenues was driven by a yield improvement of 4.8%, partly offset by a traffic decrease of 1.8%. System yield in the third quarter of 2019 improved due to the constrained capacity resulting from the grounding of the Boeing 737 MAX aircraft as well as a generally improved pricing environment, mainly in North America. The yield increases also included additional revenues from Aeroplan flight redemptions and other revenues subsequent to the Aeroplan acquisition on January 10, 2019. Air Canada's third-quarter EBITDA of CA\$1.472 billion was 9% higher than the third quarter of 2018, and better than the increase of approximately 5% projected in Air Canada's news release dated July 30, 2019. This better-than-expected EBITDA performance was primarily driven by a lower fuel price per liter than that Air Canada had previously assumed in its guidance. Third-quarter 2019 net income amounted to CA\$636 million compared to third-quarter 2018 net income of CA\$702 million. The third quarter of 2019 included foreign exchange gains

Deal involving Nordic arm of defunct Thomas Cook saves over 2,000 jobs



Thomas Cook Airlines Scandinavia

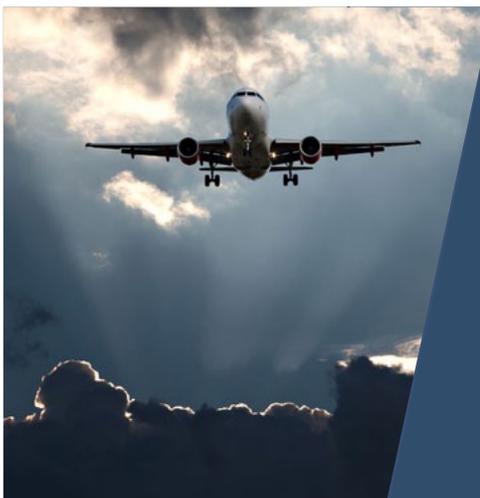
Photo: AirTeamImages

Billionaire Petter Stordalen, a Norwegian businessman, hotel and property developer has, together with private equity firms TDR Capital and Altor, purchased the Nordic arm of the now failed Thomas Cook travel agent and airline. The triumvirate has acquired the Ving Group, which includes such brand names as Globetrotter, Spies and Thomas Cook Airlines Scandinavia, which will now be renamed Sun Class Airlines. Stordalen's Strawberry Group and Altor will each take a 40% stake in the new venture, with TDR Capital taking a 20% share. The deal is also expected to see some 2,300 jobs of previous Thomas Cook employees saved. Strawberry Group said Thomas Cook Northern Europe, which employs 2,300 people, is the Nordic region's most successful travel company and called it a "crown jewel". Mr Stordalen said: "Today is a big day for a man who loves the travel industry". Altor partner Harald Mix said: "It is a fantastic business that has ended up in a very unfortunate situation." The deal will enable the new owners and other financiers to inject as much as 6bn Swedish krona (US\$618) to keep it afloat.

of CA\$27 million while the third quarter of 2018 included foreign exchange gains of CA\$145 million. Air Canada reported adjusted net income of CA\$613 million in the third quarter of 2019 compared to adjusted net income of CA\$580 million in the third quarter of 2018. (US\$1.00 = CA\$1.31 at time of publication.)

Airbus reports nine-months 2019 results, updates delivery outlook

Airbus has reported nine-months 2019 consolidated financial results and provided full-year guidance. Consolidated revenues increased to €46.2 billion (9m 2018: €40.4 billion), mainly driven by higher deliveries, a favorable mix and foreign exchange rate development. A to-



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tal of 571 commercial aircraft were delivered (9m 2018: 503 aircraft), comprising 33 A220s, 422 A320 Family aircraft, 34 A330s, 77 A350s and five A380s. Airbus Helicopters delivered 209 units (9m 2018: 218 units) with its stable revenues supported by growth in services and reduced by program phasing. In September, the 1,000th Super Puma helicopter was delivered. Higher revenues at Airbus Defense and Space were mainly driven by Military Aircraft activities. Consolidated EBIT Adjusted increased to €4,133 million (9m 2018: €2,738 million), mainly reflecting the commercial aircraft performance at Airbus. Airbus' EBIT Adjusted increased sharply to €3,833 million (9m 2018: €2,340 million), largely driven by the A320 ramp-up and NEO premium, progress on the A350 financial performance and foreign exchange improvement which already materialized in H1 2019. "Our nine-months results are mainly driven by the performance in commercial aircraft, reflecting both the A320neo ramp-up and progress on the A350," said Airbus Chief Executive Officer Guillaume Faury. "We are focused on the A320neo ramp-up and improving the industrial flow while managing the higher level of complexity on the A321 ACF in particular. Our nine-months delivery numbers and the updated delivery outlook for the year reflect the underlying actions to secure a more efficient delivery flow in the next years as we progress to rate 63 per month for the A320 Family in 2021. The full-year free cash flow guidance has been adjusted to reflect the revised delivery outlook while the EBIT Adjusted target is maintained. We are focused on meeting our customer commitments and preparing the production system for the future." As the basis for its 2019 guidance, the Company expects the world economy and air traffic to grow in line with prevailing independent forecasts,

INFORMATION TECHNOLOGY



AMOS MRO-editon to be deployed at TAP airline and TAP M&E

Photo: Swiss-AS

The Portuguese flag carrier **TAP** together with **TAP Maintenance & Engineering** has inked agreements with **Swiss-AS** to manage in future company-wide fleet maintenance activities with **AMOS**. During the in-depth evaluation phase, all details of AMOS were extensively analyzed and questioned by TAP in order to make sure that it is the best fit for the airline as well as the M&E unit. Customer visits were organized, tender documents were exchanged, and several workshops had taken place before the decision was finally taken. Portugalia Airlines (PGA) next door, being a subsidiary of TAP and having used AMOS since 2012, allowed TAP the unique opportunity to see AMOS live in production and benefit from PGA's long-term experience with AMOS and Swiss-AS. By choosing the AMOS MRO Edition including AMOS-mobile and relying on the Swiss-AS Cloud Hosting solution, TAP will take advantage of the latest features and services offered by Swiss-AS. In the future, AMOScentral may well become a cornerstone for TAP to facilitate easy and safe communication and data exchange between TAP, its subsidiary Portugalia Airlines, and beyond.

which assume no major disruptions. The 2019 earnings and Free Cash Flow guidance is before M&A. Airbus now targets around 860 commercial aircraft deliveries in 2019, which reflects the updated delivery schedule. Airbus maintains its expected increase in EBIT Adjusted of approximately +15% compared to 2018. Airbus now expects FCF before M&A and Customer Financing of approximately €3 billion. (€1.00 = US\$1.11 at time of publication.)

Air France KLM third-quarter net income down €420 million

In the third quarter 2019, the Air France-KLM Group posted an operating result of €900 million, down by €165 million compared to last year, impacted by the trading environment and a fuel bill increase. Net income amounted to €366 million in the third quarter 2019, a decrease of €420 million compared to last year, including non-operating cost impact related to Airbus A380 phase-out of



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€100 million and effects on currency hedge portfolio related to a stronger U.S. dollar and Japanese Yen. The fuel bill including hedging amounted to €1,512 million for the third quarter 2019, up €135 million. This increase is mainly explained by a hedging loss of €50 million in this quarter compared to a hedging gain of €100 million last year, and a negative currency effect on the fuel bill of €48 million due to a stronger dollar. Currencies had a positive €92 million impact on revenues and a negative €20 million effect on costs (ex-fuel) including currency hedging.

OTHER NEWS

Finnair and **Air Serbia**, the national airline of the Republic of Serbia, have signed a codeshare agreement in order to provide their passengers enhanced travel opportunities within their networks in Europe. In addition, the new codeshares will also offer good connectivity between Serbia and key destinations in the USA and Asia. According to the new agreement, starting from October 27, Air Serbia’s “JU” code will be added on flights operated by Finnair between Helsinki and Vienna, Prague, Berlin, Copenhagen, Stockholm, Gothenburg, Oslo, Riga, Tartu, Vilnius and Tallinn. Air Serbia’s code is also added on a large number of flights operated by Finnair within Finland, such as flights between Helsinki and Turku, Tampere, Joensuu, Jyväskylä, Kuopio, Kajaani, Kokkola, Pietarsaari, Vaasa, Kemi Tornio, Oulu, Ivalo, Kuusamo and Rovaniemi.

Panasonic Avionics Corporation subsidiary, **AeroMobile**, a leading inflight mobile connectivity provider, has launched mobile connectivity onboard **EGYPTAIR** Boeing 787-9 Dreamliner aircraft. This launch marks a significant time for EGYPTAIR; considered Africa’s pioneer and leading airline, and the flag carrier of Egypt, as it responds to the ever growing demand for connectivity from travelers. With this launch, EGYPTAIR has achieved a major milestone by initiating the deployment of mobile and internet connectivity across its entire fleet of Dreamliner aircraft. In addition to the onboard Wi-Fi and live TV service, passengers will be able to access the AeroMobile network to connect their roaming-enabled GSM mobile phones to use mobile data services, send and receive SMS messages and emails, and make and receive calls. Following the successful introduction of its first two aircraft with inflight mobile connectivity in Spring 2019, EGYPTAIR are set to complete their roll out through Autumn 2019. The B787-9 fleet with inflight mobile connectivity will serve destinations including Europe, America and Asia during 2019.



Sky Express

Photo: AirTeamImages

Qatar Airways has signed an interline agreement with **Sky Express**, with immediate effect. This agreement will enable Greek passengers outside of Athens to travel seamlessly between Greece and Doha and onwards to destinations in Asia, the Middle East and Australasia. Qatar Airways’ passengers will benefit from access to 24 exciting new destinations in Greece including Santorini, Crete, Corfu and many other destinations on Sky Express’s domestic network. Qatar Airways has been operating to Athens since June 2005, and in 2015 increased its service to the Greek capital from twice daily to three-times daily to meet growing demand. In 2018, the airline added Thessaloniki and Mykonos as its second and third gateways to the idyllic Mediterranean nation.



Volotea A319

Photo: Airbus

Barcelona-based airline **Volotea** has chosen **Airbus** to train all its pilots following the signing of an exclusive five-year contract. The training, which will commence in January 2020, includes type-rating as well as long-term recurrent training linked to Volotea’s growing fleet of Airbus A319s – which will exceed 50 aircraft in 2023. The organization of the training plan is currently on-going, paving the way for the “go-live” next year. Volotea’s trainees will benefit from long-term use of Airbus’ full-flight simulators – located throughout Airbus’ training center network – and will be taught by a pool of expert pilot instructors, drawn from both Airbus and Volotea. The flexible training scheme will benefit from the cross-fertilization of both Volotea’s and Airbus’ respective expertise and standards. To this end, the airline is initially inducting four of its pilot instructors into Airbus’ training regime, while in parallel, Airbus is aligning around 20 of its own instructors in collaboration with Volotea’s operational requirements. As the airline progressively expands its A319 fleet, the size of the joint instructor pool is expected to commensurably increase. Volotea has selected the Airbus A319 as the model for its planned fleet expansion.

INDUSTRY PEOPLE



Adm. John M. Richardson (Ret.)

- Boeing's Board of Directors has elected retired **Adm. John M. Richardson** as its newest member. Richardson served as the 31st chief of Naval Operations from September 2015 until August 2019, when he retired from the U.S. Navy after 37 years of service. Richardson will join the Aerospace Safety Committee, which was formed in August following a rigorous five-month review of the company's policies and processes for airplane design and development by the board's temporary Committee on Airplane Policies and Processes. He also will serve on the board's Special Programs Committee.



Eric Segura

- Eric Segura** has been nominated SVP Procurement and Supply Chain of ATR, the regional aircraft manufacturer. Starting November 1, 2019, he will be reporting to the CEO, **Stefano Bortoli** and joins the ATR Executive Committee. Segura will be succeeding **David Brigante**, who was nominated SVP Programmes and Customer Services earlier in the year. With more than 30 years in key positions within the Airbus group, Segura brings additional, comprehensive knowledge of the global aviation ecosystem to ATR.



Photo left: Kristie Kondrotis Photo right: Julie Smyth

- GKN Aerospace has appointed **Kristie Kondrotis** as President of Defense, effective November 1, and **Julie Smyth** as General Counsel, effective November 25, 2019. In their new roles, both will join the GKN Aerospace Executive Committee reporting to **Hans Bütthker**, GKN Aerospace Chief Executive Officer. In her newly created role, Kondrotis will lead GKN Aerospace's grow-

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ing defense business and will be based in Dallas, USA. She joins GKN Aerospace from Spirit AeroSystems where she was Senior Vice President Defense Programs and Business Development. As General Counsel, Julie Smyth will be based in London, U.K., and will be accountable for legal, risk, compliance, and governance matters across the global aerospace business. She joins GKN Aerospace from BAE systems where she was Chief Counsel for the Air Sector.



Noel Quinn

- Noel Quinn** has been named senior proposal manager for King Aerospace's government services. He has more than 15 years of experience in CONUS and OCONUS aviation maintenance, management and modification; intelligence, surveillance and reconnaissance (ISR); launch operations; and logistics. Previously, Quinn served as proposal manager for Vertex Aerospace, L-3 Vertex Aerospace, AECOM Government Services and DynCorp. For almost 22 years, he worked for E-Systems/Raytheon/L-3 Communications in such roles as information technology team lead and business development specialist.



AviTrader Publications Corp.

Suite 305, South Tower
5811 Cooney Road
Richmond, BC
Canada V6X 3M1

Publisher

Peter Jorssen

Tel: +1 604 318 5207

Editor

Heike Tamm

editor@avitrader.com

Tel: +34 (0) 971 612 130

Advertising Inquiries and

Customer Support

Jenny Vogel

jenny.vogel@avitrader.com

Tel: + 49 (0) 8761 346 007

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	Jonathan.louch@dvvbank.com	+44 207 256 4449
A320-200	ORIX Aviation	V2527-A5	1509	2001	Q4/2020	Sale / Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
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
A320-232	DVB Bank	V2527-A5	2156	2005	Q1/2020	Lease	Jonathan Louch	Jonathan.louch@dvvbank.com	+44 207 256 4449
A330-200	DVB Bank	CF6-80E	814	2007	Q2/2020	Lease	Jonathan Louch	Jonathan.louch@dvvbank.com	+44 207 256 4449
A330-200	GA Telesis	CF6-80E1A4	507	2002	Now	Sale	Kevin Ford	aircraft@gatelesis.com	+1-954-676-3111
A330-200	GA Telesis	CF6-80E1A4	510	2002	Now	Sale	Mauro Francazi	aircraft@gatelesis.com	+1-954-676-3111
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	Aircraft Engine Lease Finance	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-60	1485	2014	Q1/2020	Sale / Lease	Jonathan Louch	Jonathan.louch@dvvbank.com	+44 207 256 4449
A330-300	DVB Bank	Trent 772B-60	1146	2010	soon	Lease	Jonathan Louch	Jonathan.louch@dvvbank.com	+44 207 256 4449
B737-700	Kellstrom Aerospace	CFM56-7B26	28210	1998	Now	Sale	Michael Garcia	info@kellstromaerospace.com	+1 (847) 233-5800
B737-800	DVB Bank	CFM56-7B27	28178	1999	Q4/2019	Lease	Jonathan Louch	Jonathan.louch@dvvbank.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	GA Telesis	CFM56-7B	33813	2004	Now	Lease	Priscilla Ang	aircraft@gatelesis.com	+1-954-676-3111
B737-800	GA Telesis	CFM56-7B	33814	2004	Now	Lease	Mauro Francazi	aircraft@gatelesis.com	+1-954-676-3111
B737-800	Willis Lease				soon	Sale / Lease	Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775
B757-223 (7x)	Jetran	RB211-535E4B	various	91/92	Now	Lease	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
B777-300ER	DVB Bank	GE90-115b	35161	2008	Q3/2019	Sale / Lease	Jonathan Louch	Jonathan.louch@dvvbank.com	+44 207 256 4449
(2) B787-800	Willis Lease	CFM56-7			soon	Sale / Lease	Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775

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	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
CRJ-700	Regional One	CF34-8C5B1	10205	2005	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
D0328 Jet	Regional One	PW306B	3185	2001	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
Do328-100	Jetran	PW119B	3049	1996	Now	Sale	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
Do328-110	Jetran	PW119B	3024	1994	Now	Sale	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
Do328-110	Jetran	PW119B	3034	1995	Now	Sale	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
ERJ-170LR	AerFin	CF34-8E	1700155		Now	Sale / Lease	Auvinash Narayen	Auvinash.Narayen@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700124		Now	Sale / Lease	Auvinash Narayen	Auvinash.Narayen@aerfin.com	+44 (0) 7766384581
ERJ170-100LR	Regional One	CF34-8E5	17000123	2006	Nov 2019	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164

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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	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
ERJ-145LR	Regional One	AE3007A1	145331	2000	Now	Sale / Lease	Chris Furlan	cfurlan@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	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
(1) CF34-3B1	Now - Sale / Lease				
(2) CF34-10E	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) CF34-8E5A1	Now - Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204x202
(1) CFM34-8C5A1	Oct 2019 - Lease				
(1) CF34-10E6	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CF34-10E7	Now - Lease				
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) CF6-80C2B1F	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	Q3/2019 - Sale / Lease	Conrail Aviation	Kevin Milligan	kevin@conrail.com	+1 949-933-0797
(1) CFM56-7B24	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950



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(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
(1) CFM56-7B22	Now - Lease	CFM Materials	Jimmy Hill	jimmy.hill@cfmmaterials.com	+1-214-988-6670
(1) CFM56-7B26/3	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CFM56-7B26/E	Now - Lease				
(1) CFM56-5B3/3	Now - Lease				
(1) CFM56-5B3/P	Now - Lease				
(1) CFM56-7B27	Now - Sale / Lease	GA Telesis	Eddo Wiejer	ewiejer@gatelesis.com	+1-954-676-3111
(2) CFM56-5B4/P	Now - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
(2) CFM56-7B26/27	Nov 2019 - 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	Oct 2019 - Lease				
JT8D and JT9D Engines	Sale / Lease	Company	Contact	Email	Phone
(1) JT8D-219	Now - Sale	AZURE RESOURCES INC.	Jeff Young	jeff@azureres.com	1-954-249-7935
GE90 Engines	Sale / Lease	Company	Contact	Email	Phone
(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
GENx Engines	Sale / Lease	Company	Contact	Email	Phone
(1) GENx1B74/75 Propulsor	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
LEAP Engines	Sale / Lease	Company	Contact	Email	Phone
(2) LEAP-1B28	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) LEAP-1A33	Now - Lease				
(1) LEAP1A-32	Now - Lease	Rolls-Royce & Partners Finance	Charlie Ferguson	charlie.ferguson@rolls-royce.com	+44-(0)7772224895
PW Small Engines	Sale / Lease	Company	Contact	Email	Phone
(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				
(3) PW123	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	leasing@willislease.com	+1 (561) 349-8950
(2) PW127F	Now - Sale/Lease/Exch.				
(1) PW150A	Now - Sale/Lease/Exch.				
(3) PW127M	Now - Sale/Lease/Exch.				
(1) PW120A	Now - Sale / Lease	Regional One	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
(1) PW120	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) PW123E	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(4) PW126	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) PW121	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
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			Remi Krysz	rkrysz@logix.aero	+33.6.2079.1039
(4) PW127M					
(1) PW120 / PW121	Now - Sale / Lease	Royal Aero	Calum MacLeod	calum@royalaero.com	+49 8025 993610

THE AIRCRAFT AND ENGINE MARKETPLACE

Commercial Engines (cont.)

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
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
(1) V2533-A5	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(2) V2527-A5	Dec 2019 - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) V2527-A5	Now - Sale / Lease	GA Telesis	Eddo Wiejer	ewiejer@gatelesis.com	+1-954-676-3111
(2) V2527-A5	Now - Sale / Lease				
(2) V2500-A5	Now - Sale / Lease	Contrail Aviation	Kevin Milligan	kevin@contrail.com	+1 949-933-0797
(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	Q3+Q4/2019 - 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
(multiple) APS2300, (1) GTCP331-350C	Now - Sale / Lease	AirFin	Nick Filce	Nick.Filce@aerfin.com	+44 7770 618 791
(1) GTCP36-300A, (1) GTCP131-9A					
(2) GTCP131-9A, (1) GTCP131-9B, (1) GTCP131-9B (MAX),		GA Telesis		apu@gatelesis.com	+1-954-676-3111
(1) GTCP331-200ER, (1) GTCP331-350, (2) GTCP331-500, (1) PW901A					
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	rlewsley@logix.aero	+1 602 517 8210
APS3200, APS2300, GTCP85-129H					
(1) APU GTCP331-500, (1) APU GTCP131-9A	Now - Sale / Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
Engine stands now available	Now - Lease				
ENGINE STANDS: Trent 800, PW4000 112"/V2500		National Aero Stands		support@stands.aero	+ 1 305-558-8973
/ CFM56/ PW2000 & Bootstrap kits					
(2) PW901A, (1) PW901C(1), PW125B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368