

# AVI TRADER WEEKLY AVIATION HEADLINES

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## WORLD NEWS

### Flair Airlines enters Interline agreement with Hahn Air

The German scheduled airline Hahn Air announced a new partnership with Flair Airlines (F8). The Canadian low-cost carrier from British Columbia has joined Hahn Air's network of more than 300 partners to benefit from its distribution services. Specifically choosing the HR-169 product, Flair Airlines expands its commercial reach to more than 100,000 travel agencies in over 190 markets worldwide, enabling the issuance of its flights on the HR-169 ticket through the Amadeus GDS.

### Loganair steps up expansion plans

Scotland's airline Loganair announced a programme of expansion as it launches its schedule for its first full summer of flying under its own name and brand. Loganair is launching a new three-times weekly jet service linking Manchester and Inverness with Bergen, the Norwegian city known as the "gateway to the fjords". Operating on a year-round basis, it is Inverness's second regular international service and it will join Loganair's network alongside existing flights to the Norwegian city from Glasgow, Shetland and Orkney. In further developments, Loganair is introducing the first ever non-stop services linking Manchester with the three main Scottish islands – Shetland, Orkney and the Western Isles.

### Malaysia Airlines partners with Amadeus

Malaysia Airlines will adopt Amadeus Customer Experience Management, the ultimate tool for building brand loyalty through an understanding of each and every airline customer. The solution helps airlines grow loyalty by exceeding traveller expectations.



Norwegian is opening new routes to US destinations.

Photo: Norwegian

## Norwegian further expands EU - US routes

With flights from the U.S to Madrid, Amsterdam and Milan

Norwegian has announced further expansion of its long-haul networks with four new routes between Europe and the United States to Europe: New York City/JFK and Los Angeles to Madrid; New York City/JFK to Amsterdam; and Los Angeles to Milan.

Norwegian now offers 61 nonstop transatlantic routes between the US and Europe.

To support the continuous growth at Los Angeles International Airport, Norwegian will open its fourth American crew base with 150 cabin crew members during the first quarter of 2018. The airline already has four crew bases for cabin crew and pilots in the U.S.

Norwegian CEO Bjorn Kjos said: "2017 has been a year of exponential growth for Norwegian in Europe and the United States. Next year, we will continue our long-haul expansion by offering passengers easy and affordable connections

dam's Schiphol Airport will launch on May 7, 2018, and will operate four times per week.

Service from Los Angeles International Airport to Madrid will launch on July 16, 2018, and will operate four times per week. Service to Milan-Malpensa Airport will launch on June 18, 2018, and will also operate four times per week.

Overall, Norwegian now offers 61 transatlantic flights from 13 U.S. airports to Denmark, France, Ireland, Italy, Norway, Spain, Sweden and the United Kingdom, as well

Continued on page 3

## "2017 has been a year of exponential growth for Norwegian in Europe and the United States,"

Norwegian CEO Bjorn Kjos said

between the US and some of Europe's most exciting cities."

Service from New York's John F. Kennedy International Airport to Madrid-Barajas Airport will launch on July 18, 2018, and operate three times per week. Service to Amster-

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six routes to the French Caribbean, totalling 67 routes out of the United States.

Upcoming launches from the U.S. include: Oakland/San Francisco to Rome (February 6, 2018); New York/Newark to Paris (February 28);

Chicago to London (March 25); Austin to London (March 27); Denver to Paris (April 9); Oakland/San Francisco to Paris (April 10), Boston to Paris (May 2); New York/JFK to Amsterdam (May 7); Los Angeles to Milan (June 18); Los Angeles to Madrid (July 16); and New York/JFK to Madrid (July 18).

**AIRCRAFT & ENGINE NEWS**

**Air Astana destined to become one of the largest Airbus A320neo Family operators in Central Asia and CIS**

Air Astana, the flag carrier of Kazakhstan, is destined to become one of the largest A320neo Family operators in Central Asia and CIS over the next three years. The airline became the first operator of this type of aircraft in the region in 2016, and the fleet will grow to 17 aircraft by 2020. Air Astana will then operate 6 A320neos, 7 A321neos and 4 A321neo LRs. All aircraft will be acquired on an operating lease basis in accordance with agreements that were signed for 11 aircraft in 2015 and 6 aircraft in 2017. The delivery of the new generation A320neo Family aircraft will allow for an overall increase of capacity by up to 40% over the next three years. The A320neo and A321neo will operate on domestic and medium-haul destinations, whilst the A321neo LR has the capability to operate long-range services from Almaty and Astana to destinations in Asia and Europe. As well as boosting frequencies on existing routes, the aircraft will also be deployed on new services to CIS and South Asia.

**Belavia to add a further E195 to Embraer Fleet**

Embraer and Belavia, Belarusian Airlines, the national carrier of Belarus, today (Monday) announced a further firm order for one current generation E195 jet for delivery in 2018. The firm order, with a list price value of

**Orders and deliveries – Boeing and Airbus**

Airbus v Boeing: Orders and Deliveries					
November 2017 YTD					
Airbus			Boeing		
Type	Orders	Deliveries	Type	Orders	Deliveries
A320 Family	287	453	737	504	468
A330	8	55	747	-2	12
A340	0	0	767	15	9
A350	40	69	777	57	66
A380	-2	14	787	87	125
<b>Total</b>	<b>333</b>	<b>591</b>	<b>Total</b>	<b>661</b>	<b>680</b>

Source: Airbus

Source: Boeing

During November, the order book for Airbus’ best-selling A320 Family increased by 45 jetliners, while 74 aircraft were delivered to international customers from all of the company’s current-production single-aisle and widebody product lines.

Boeing reported orders for 159 aircraft in November across its 737, 787, 777 and 747 platforms. Deliveries totaled 70 aircraft.

US\$53.5 million, will be included in Embraer’s 2017 fourth-quarter backlog. Following Belavia’s firm order for two E-Jets (one E175 and one E195) announced at the Paris Air Show in June, the new contract will bring the airline’s Embraer fleet to seven aircraft – four E195s and three E175s – when deliveries are completed in 2018. The acquisition is an essential part of Belavia’s fleet renewal initiative; a core priority in the airline’s business strategy to offer high quality air travel to its customers. Configured in a dual class, the E195 will

replace the existing Boeing 737-500 on Belavia’s fleet.

**Qazaq Air signs order for two new Q400 aircraft**

Qazaq Air JSC of Kazakhstan and Bombardier Commercial Aircraft have signed a firm purchase agreement for two new Q400 turboprops. Based on the list price of the Q400 aircraft, the firm order is valued at approximately



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**AIRCRAFT & ENGINE NEWS**

US\$66.8m. Qazaq Air is a young, dynamically growing regional airline in Kazakhstan, 100 % of which is owned by “Samruk-Kazyna” Sovereign Welfare Fund. Its fleet currently consists of three new Bombardier Q400 aircraft.

**MTU Aero Engines develops new technologies for geared turbofans**

As the geared turbofans (GTFs) of the first generation are busy clocking up mileage in revenue service, MTU Aero Engines engineers already have their hands full working on the second generation: under the European Union’s Clean Sky 2 research project, the German engine manufacturer continues to enhance the fuel-efficient, low-emission, low-noise propulsion system, developing new technologies for two of its modules, the low-pressure turbine and high-pressure compressor. Two demonstrators are being built to validate the new technologies. “Under Clean Sky 2, we are paying special attention to the interactions of the components sitting on the low-pressure and high-pressure shafts,” explains Dr. Stefan Weber, Senior Vice President Technology and Engineering Advanced Programs at MTU Aero Engines. Investigations into the low-pressure turbine will also take the inlet and exit case designs into consideration, and the optimization of the high-pressure compressor will also involve improvements to the low-pressure compressor and inter-turbine case. The efforts aim to further enhance the aerodynamics and to develop new, lighter weight and more temperature-resistant materials. Materials that hold the greatest promise for low-pressure turbine applications include ceramic matrix composites, or CMCs for short. Launched in 2014, the Clean Sky 2 technology program is part of the EU’s Horizon 2020 Framework Programme for Research and Innovation and is slated to run through 2024. Its primary aim is to make aviation even more environmentally friendly and efficient. MTU is one of 16 lead partners and is responsible for an engine demonstrator and a rig.

**Airbus secures order for 100 A321neo ACFs from Delta Air Lines**

U.S. carrier Delta Air Lines has placed a firm order for 100 A321neo ACF (Airbus Cabin Flex configuration) aircraft, the largest of the Airbus single-aisle Family. The aircraft will be powered by Pratt & Whitney PW1133G-JM geared turbofan engines. Delta CEO Ed Bastian is quoted as saying: “This is the right transaction at the right time

**Pilatus obtains PC-24 type certificates**



The PC-24 business jet from Pilatus received EASA and FAA type certificates

Photo: Pilatus Aircraft

On December 7, 2017 Pilatus obtained type certificates from the European Aviation Safety Agency (EASA) and the US-American Federal Aviation Administration (FAA) for its first-ever Swiss business jet. Certification of the Super Versatile Jet prepares the ground for initial customer deliveries, which will see the PC-24 business jet take off from central Switzerland for its entry into the global market. The first PC-24 prototype completed its maiden flight in May 2015. All three prototypes used in the certification program have flown a combined total of 2205 hours worldwide so far. Some flight tests were conducted in extreme environments: in icing conditions and very hot temperatures, at altitudes and speeds not usually encountered in everyday operations. Other tests have included bird impacts, structural stress tests, noise tests and general function.

**H160’s third prototype gets carbon design livery**



H160 prototype Carbon Livery

Photo: (c)Thierry Rostang

The third H160 prototype has received a fresh coat of paint and now features a striking “carbon” livery design as a nod to the Airbus A350 XWB, MSN2 flight-test aircraft. Both aircraft are produced using advanced composite materials supplied by Airbus’ long-term partner, Hexcel. The H160 is the first civil helicopter equipped with a full composite fuselage, the advantages of which include a lighter fuel-saving airframe, performance optimization and simplified maintenance.

**AIRCRAFT & ENGINE NEWS**

for our customers, our employees and our shareholders. Delta, Airbus and Pratt & Whitney share the same commitment to safety, efficiency, innovation and continuously improving the customer experience. This order for the state-of-the-art A321neo with Pratt's Pure Power next-generation jet engines reflects our long-term commitment to these values for Delta people and all our constituents." According to Airbus, the A321neo ACF introduces new door and fuselage enhancements allows airlines to make best use of the cabin space with a range of up to 4,000 nautical miles. The A321 is the largest member of the A320 Family, seating up to 240 passengers. Incorporating the latest engines, aerodynamic advances, and cabin innovations, the A321neo will offer a significant reduction in fuel consumption of 20 percent by 2020. With more than 5,300 orders received from 96 customers since its launch in 2010, the A320neo Family has captured some 60% share of the market. The majority of Delta's A321neos will be delivered from the Airbus U.S. Manufacturing Facility in Mobile, Alabama.

**Eight more AW139s to strengthen rescue and border patrol services in Italy**



Italy has ordered eight more AW139s for rescue and border patrol services

Photo: Leonardo

Leonardo has received further orders for its AW139 intermediate twin-engine helicopter for public service and security operations in Italy, with contracts for eight aircraft valued at approximately €112m (US\$132m). The Italian Coast Guard has signed a contract for two AW139s to perform search and rescue missions, with deliveries to be completed by the end of 2018, while the Italian Customs and Border Protection Service (Guardia di Finanza) has ordered six of the aircraft to perform patrol operations, with deliveries to be completed by 2020.

**MRO & PRODUCTION NEWS**

**Monarch Aircraft Engineering sign up to ELMS competence management software**

Monarch Aircraft Engineering has implemented a new competency based system with the ELMS Aviation application. Using the cloud-based software system will provide MAEL, a Part 145 and Part M approved organization, with an enhanced solution to better manage competence and compliance of its highly skilled staff. Having the ELMS Aviation application allows all engineers working in maintenance and continuing airworthiness to build a complete profile of their competence, in accordance with EASA regulations and industry best practice.

**New Singapore Airlines A380 takes to the skies**



The first of five new A380 aircraft for SIA, takes to the skies

Photo: Airbus

**Pratt & Whitney inks 12-year Engine-Wise Fleet Management Agreement with S7 Airlines**

Pratt & Whitney and S7 Airlines have signed an agreement for a 12-year Pratt & Whitney EngineWise™ Fleet Management Program. The agreement will cover S7 Airlines' fleet of 30 Airbus A320neo and A321neo family of aircraft powered by the Pratt & Whitney PurePower® Geared Turbofan™ (GTF) PW1100G-JM engines.

Singapore Airlines has taken delivery of the first of five new A380 aircraft scheduled to join the carrier's fleet over the coming year, at a special ceremony hosted by Airbus in Toulouse. The aircraft, delivered on December 13, is the first in the airline's fleet to feature its recently launched on-board cabin products and innovations. In addition to the five new aircraft, Singapore Airlines will also retrofit 14 A380s already in service, with its new cabin products. The retrofit work is expected to begin late in 2018 and will be undertaken by the airline in conjunction with Services by Airbus. All 14 aircraft are scheduled to be retrofitted by 2020. The new Singapore Airlines A380 offers more personal space in all classes, accommodating a total of 471 passengers. The cabin features six private suites and 78 Business Class seats on the upper deck and 44 Premium Economy Class and 343 Economy Class seats on the main deck. The aircraft also features the latest in-flight entertainment systems and full connectivity from every seat.

MRO & PRODUCTION NEWS

**Dassault Aviation awards Daher construction of new logistics platform near Paris-CDG Airport**

A longstanding industrial and supply-chain partner to Dassault Aviation, Daher is expanding its third-party logistics (3PL) services to the aircraft manufacturer for spare parts for civil aviation aircraft. The contract between Dassault Aviation and Daher provides for the construction of a Daher logistics platform which will be largely automated and digital, with HQE environmental certification in the Aerolians Paris business park. This comprehensive solution includes the building, infrastructure, information system and logistics operations. Daher and Dassault's spare parts logistics partnership for the entire range of Falcon civil aircraft spans nearly two decades. Daher designed and currently operates a distribution platform for spare parts near Le Bourget Airport. Daher is now set to build a new logistics platform, Daher engineers designed the building to handle the flow of spare parts and aircraft repairs, with the Falcon fleet's long-term outlook in mind. It will feature innovative storage facilities and a co-ordinated management system connecting the various stakeholders to boost overall performance. Dassault Aviation's Falcon spare part teams, Daher, and the forwarding agent will all be working under the same roof at the platform, which will ensure the availability of Falcon parts and equipment, in particular for Aircraft on Ground (AOG) assistance, with a two-hour turnaround 24/7.

**StandardAero awarded multi-year contracts to provide APU, MRO services for Russian-based Yamal Airlines**

StandardAero has been awarded two multi-year auxiliary power unit (APU) maintenance, repair and overhaul (MRO) contracts to support Yamal Airlines, a Russian-based regional operator. The contracts include a three-year agreement to provide Honeywell GTCP36-150RJ APU MRO services for Yamal's fleet of 10 CRJ-200LR aircraft and a five-year agreement supporting Honeywell RE220 APU MRO services on Yamal's fleet of 10 Sukhoi Superjet aircraft, which is expected to grow to 16 aircraft by early next year. These new agreements were signed on November 24, and activated on December 1, 2017. APU services will be provided at StandardAero's Maryville, TN facility. Yamal Airlines is based in Salekhard, Yamalo-Nenets Autonomous Okrug, Russia, with its main hub in Tyumen. It operates regional passenger services and was established in 1997.

**Oriens Aviation moves into Pilatus PC-12 MRO support with Avalon Aero acquisition**



Oriens Aviation acquires Avalon Aero at Biggin Hill

Photo: Gary Stone Photography

Oriens Aviation, the British Isles Pilatus Centre, has reinforced its commitment to the single-engine turboprop (SET) Pilatus PC-12 and the growing SET commercial operations' market in Europe by acquiring Avalon Aero's business aviation MRO facility at London Biggin Hill Airport. The business will be formally renamed and inaugurated as Oriens Aviation Limited effective immediately, with a view to becoming the principal authorized PC-12 Service Centre in the UK by January 29, 2018. (Oriens' activity extends to an agreement with Goodwood Engineering, who will act as a satellite service center). As a result of the acquisition, Oriens will also have the expertise to support other aircraft types for all line and base maintenance activity. This includes:

- Cessna 421/550/551/560
- Hawker Beechcraft BAE 125 Series 1000
- Piaggio P180 Avanti

The deal between the owner of Avalon and the Oriens Aviation Board was ratified on December 1, 2017, including the transfer of the existing Avalon Aero lease on its 18,000 ft<sup>2</sup> hangar. Ahead of the deal, Oriens appointed an additional member of its senior management team in October 2017 to work alongside the existing seven-strong team which Oriens is absorbing.

Newly appointed Director of Engineering Dave Plumpton brings significant aviation and strong customer support experience having worked in the challenging airline and VIP aircraft environment for almost 40 years. Steve Westran, from Avalon Aero, will work alongside him and continue to be responsible for the daily operations of the hangar and maintenance services.

**Shelf life of ExxonMobil's aviation airframe greases extended to 10 years**

ExxonMobil has announced that the shelf life of its aviation airframe greases, Mobilgrease<sup>TM</sup> 33 and Mobilgrease<sup>TM</sup> 28, has been extended to 10 years, an increase of four years. Intensive laboratory testing indicated that both greases can maintain their properties and performance benefits for up to a decade. With this extended shelf life, ExxonMobil continues to offer the airframe greases with the longest shelf life in the industry. Mo-

bilgrease<sup>TM</sup> 33 and Mobilgrease<sup>TM</sup> 28 serve as high-quality solutions that help aircraft operators minimize waste and reduce inventory carrying costs.

Trusted by the aviation industry for more than 50 years, Mobilgrease 28 provides excellent protection under heavy-load applications and resists deterioration when exposed to wide-ranging temperatures. Equally valued within the global aviation community, Mobilgrease 33 is an ester-free formulation that effectively protects against the deteriorating effects of hydrolysis and provides air-

MRO & PRODUCTION NEWS

lines exceptional performance at extremely low temperatures and wet environments.

“Mobilgrease™ 33 and Mobilgrease™ 28 are proven to provide excellent performance, even after sitting on a shelf for 10 years, which is a true testament to our quality of products,” said Vipin Rana, global aviation lubricants sales manager at ExxonMobil. “By offering airlines numerous performance benefits and longevity, our trusted airframe greases are ideal solutions that help minimize waste, deterioration and maintenance repairs, helping our valued customers enjoy cost savings in the air and in storage.”

**Seal Dynamics and Hartwell establish new partnership**

Seal Dynamics, a wholly owned subsidiary of HEICO, has signed a long-term agreement with Hartwell Corporation, to distribute Hartwell products on an exclusive basis in a number of regions and markets throughout the world effective January 1, 2018.

**AerSale to be new North American modification provider for 757-200PCF conversions**

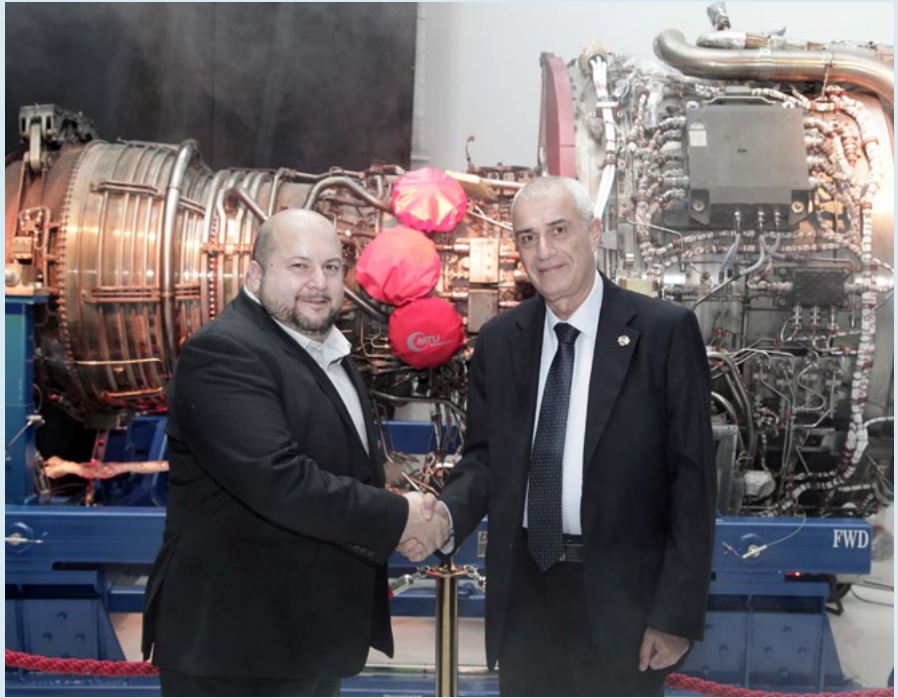
AerSale, a global supplier of mid-life aircraft, engines, used serviceable material (USM), and MRO services, has reached an agreement with Precision Aircraft Solutions (Precision) to provide 757-200PCF freighter modifications for the company at its Goodyear, Arizona, MRO facility. Additional services provided by AerSale will include regular maintenance checks, aircraft painting, and avionics modifications. Precision currently has three other approved modification and installation facilities—Flightstar Aircraft Services, located in Jacksonville, Florida, HAECO, located in Xiamen, China, and AMECO, located in Chengdu Base, China.

FINANCIAL NEWS

**Tokyo Century Corporation to invest in Aviation Capital Group**

Aviation Capital Group (ACG) has announced that its parent company, Pacific Life Insurance Company, has closed a transaction with Tokyo Century Corporation (TC) that results in an investment by TC for a 20% membership interest in ACG. In addition to this initial investment, TC has agreed to provide additional

**IAI to provide engine maintenance services for IAE V2500 engines**



Anthony Rossi, Executive Director, Business Development, Pratt & Whitney Canada, Jacob Rozmann, VP and General Manager, IAI Engines Division  
Photo: IAI

International Aero Engines (IAE) and Israel Aerospace Industries (IAI) have signed a 10-year general-terms agreement for maintenance of V2500 engines at IAI’s BEDEK, Engine Division. The first V2500 turbofan engine, which powers the Airbus A320 family, arrived on December 14 at IAI. In a ceremony held on Thursday, IAE, which is a consortium of several companies, including Pratt & Whitney, Japanese Aero Engines Corporation, and MTU Aero Engines GmbH, and IAI marked the initiation of the V2500 maintenance agreement which established IAI as a Service Maintenance Center for IAE. IAI Bedek provides added value as a one-stop, full-service provider offering comprehensive maintenance services for aircraft, engines and components under one roof, including heavy maintenance, modifications, upgrades and aircraft conversions. The Engines Division, as part of the Bedek Aviation Group, performs maintenance on a large variety of engines, including the JT9D, CFM56-3/5/7, PW4000

capital to ACG to help accelerate ACG’s business expansion and create incremental business opportunities. Pacific Life will retain a controlling interest in ACG. TC is publicly-held and listed on the Tokyo Stock Exchange. Its core lines of business include equipment leasing, specialty financing, domestic automobile financing, and international business with a global network in 37 countries. TC’s aircraft financing operation currently owns 48 aircraft.

of its shares from the US\$14bn authorization approved in December 2016. The new repurchase program replaces the existing one, bringing the total authorization to US\$18bn. The timing and volume of repurchases are at the discretion of Boeing management, however it is expected that repurchases under the new share authorization will be made over the next 24 to 30 months.

**Boeing board establishes US\$18bn share repurchase authorization**

The Boeing board of directors has replaced the existing share repurchase program with a new US\$18bn authorization. The company this year has repurchased US\$9.2bn worth

**Rolls-Royce obtains final approval for acquisition of ITP**

Rolls-Royce has obtained the approval of all the relevant authorities for the acquisition of the outstanding 53.1% shareholding in Industria de Turbo Propulsores SA (ITP), owned by SENER Grupo de Ingeniería SA (SENER). Ap-



**FINANCIAL NEWS**

proval from the authorities in Spain paves the way for Rolls-Royce to conclude the acquisition, which was originally announced on July 11, 2016. On November 28, 2016, Rolls-Royce confirmed the valuation of €720m (US\$850m) for the 53.1% shareholding, following due diligence. Consideration will be settled over a two-year period following completion in eight evenly spaced instalments of equal value. The agreement with SENER allows flexibility to settle each tranche of the consideration either in cash or in the form of Rolls-Royce shares, as preferred by Rolls-Royce. Completion is expected before the end of 2017. The first payment will be made 16 business days post-closing in early 2018 and the consideration will be in the form of shares. The decision on the form of subsequent payments will be determined as each individual payment falls due.

**Private equity firm to acquire Sun Country Airlines**

Funds affiliated with Apollo Global Management (Apollo), together with its consolidated subsidiaries, have signed a definitive agreement to acquire Sun Country Airlines, the largest privately held fully independent airline in the United States, from brothers Marty and Mitch Davis. The transaction, which is subject to regulatory approvals and other customary conditions, is targeted to close during the first quarter of 2018. Terms of the deal were not disclosed. Jude Bricker, who will remain as CEO of Sun Country, said: "I'd like to thank Marty and Mitch for their strong support and stewardship of this very special airline. I look forward to working with Apollo to further enhance and grow Sun Country's business."

Sun Country Chairman Marty Davis said: "We are particularly pleased to sell Sun Country to Apollo because it has a proven track record for successfully helping companies grow and generate long-term value. With Jude at the helm, along with the dedicated employees who make Sun Country what it is today, we are confident the company is well-positioned for continued expansion and its evolution beyond its Minnesota base."

**Lufthansa acquisition of Niki collapses after EC blocks deal**

Air Berlin subsidiary Niki is closing its flight operations, after the take-over by Lufthansa has failed. Niki has filed for insolvency and as of December 14, flights will no longer take off. The European Commission has refused to authorize the airlines' acquisition by Germany's largest carrier, Lufthansa. Despite offering to give up a number of take-off and landing slots, this was deemed insufficient to allay concerns that Lufthansa would attain too dominant a position in many additional markets, thus adversely affecting consumer interests. One issue is that about half of the Niki slots that would be given up by Lufthansa could actually return to the airline under rules governing redistribution of available slots to existing and free carriers.

The low-cost carrier has remained in operation subsequent to the demise of Air Berlin through financial aid provided by Lufthansa while waiting for EC approval of the deal. Sources have indicated that Niki's founder, Niki Lauda, may still be interested in acquiring the beleaguered carrier in the event that the EC blocked the Lufthansa deal. Niki has been operating a fleet of 28 jets stationed at 12 different airports on more than 100 routes to Spain, Egypt and Morocco this winter. The

acquisition of Niki was intended to help Lufthansa low-cost subsidiary Eurowings expand its coverage. Carsten Spohr, Lufthansa CEO, has already made it clear that if the deal to acquire Niki fell through, then he would look to grow Eurowings organically, likely applying for any Niki slots that come available should the carrier shut down operations, with the company stating that "(From a financial point of view), this leads to a comparable result for the Lufthansa Group."

With the Lufthansa deal blocked, the German government will likely lose out considerably in any efforts to recoup the majority of the €150 million (US\$177m) bridging loan it had lent Air Berlin to keep it operational while a buyer was sought. With EC approval of easyJet's purchase of Air Berlin's operations at Berlin Tegel Airport for €40 million (US\$47m), that will only see part of the loan repaid.

**MILITARY AND DEFENCE**

**Boeing to modernize six Netherlands CH-47F Chinooks**

Boeing and the Netherlands Ministry of Defence have signed an agreement that will upgrade six Royal Netherlands Air Force (RNLAf) Chinook helicopters to the latest F-model configuration, ensuring commonality of systems for their entire fleet of 20 F-model Chinooks. Deliveries of the six modernized Chinooks are planned to begin in 2021. The upgrade to a common configuration will improve operational effectiveness, maintenance, and affordability. A key feature includes advanced operational capabilities provided by the Common Avionics Architecture System cockpit with an integrated Digital

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MILITARY AND DEFENCE

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OTHER NEWS

**Swiss AviationSoftware (AMOS)** has signed contracts with **ENGINEERING Holding**. AMOS will contribute to the work scope expansion as well as digitalization strategy of four organizations: ENGINEERING Holding, S7 Engineering, Sibir Technics and Cyprus Airways. Thanks to the AMOS Financial Multi Entity functions, the MRO organizations of the group will work within the same AMOS environment and will benefit from synergies due to common processes and integrated transactions between the entities. Cyprus Airways will have its own AMOS environment under the group umbrella agreement as processes and business needs of this airline differ from those of the MRO providers. "We are delighted that our new AMOS MRO Edition convinced another high-profile aviation group. It is the acknowledgment that the newly released MRO modules are well received in the market," states Ronald Schaeuffele, CEO of Swiss-AS.

The AMOS MRO Edition was issued with AMOS Release 12 on November 1, 2017. The new business functions that have been added to AMOS, such as Facility/Hangar Planning, Ground-time Management, Finance Control Dashboards, CRM and in-depth Quotation/Contract Management will assist the aviation group in serving its large customer base. Many of the group clients are already AMOS customers.

A new project at **Embry-Riddle Aeronautical University**, funded by a US\$1m grant from the **U.S. Department of Commerce** through

MILITARY AND DEFENCE

**Qatar agrees contract for 24 Typhoon aircraft**



Typhoon on the flight line

Photo: BAE Systems

BAE Systems and the Government of the State of Qatar have entered into a contract, valued at approximately £5bn (US\$6.65bn), for the supply of Typhoon aircraft to the Qatar Emiri Air Force, along with a bespoke support and training package. The contract is subject to financing conditions and receipt by the Company of first payment, which are expected to be fulfilled no later than mid-2018. The contract provides for 24 Typhoon aircraft with delivery expected to commence in late 2022. BAE Systems is the prime contractor for both the provision of the aircraft, and the agreed arrangements for the in-service support and initial training.

its **Economic Development Administration (EDA)**, is expected to create 387 new jobs and spur US\$1.6m in private investment. On Dec. 11, U.S. Secretary of Commerce Wilbur Ross announced that a US\$1m award to Embry-Riddle will be used to establish a new aviation and engineering research center in Florida. Specifically, the grant will "help build the Applied Aviation and Engineering Research Hangar in Volusia County," the U.S. Department of Commerce reported in an official news release. The facility will serve as the new home for Embry-Riddle's Eagle Flight Research Center, a hub for engineering

research and development. "Embry-Riddle has a 90-year legacy of innovation, and our research is shaping the future of human mobility," said University President Dr. P. Barry Butler. "We are pleased and honored to receive this research award to advance innovation, economic development and job growth in Florida."

**Rolls-Royce** has launched R2 Data Labs, to act as an acceleration hub for data innovation. The new organization, which brings together expertise from across the business, builds on



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## OTHER NEWS

30 years of data-led services and business model innovation.

Using advanced data analytics, industrial artificial intelligence and machine learning techniques, R2 Data Labs develops data applications that unlock design, manufacturing and operational efficiencies within Rolls-Royce, and creates new service propositions for customers. At the heart of R2 Data Labs are Data Innovation Cells; mixed discipline teams of data experts who work in collaboration with teams from across Rolls-Royce's operations. These cells apply cutting-edge DevOps principles to rapidly explore data, unlock and test new ideas, and turn those ideas into new innovation and services. These Data Innovation Cells will accelerate new ideas to fuel an already exciting portfolio of predictive, data-based services in areas such as asset availability, efficiency and maintenance or safety and compliance. Through R2 Data Labs, customers will be able to tap into a new community of exciting data innovation that combines deep industry, design, engineering and manufacturing domain knowledge with a global pool of Rolls-Royce data expertise. R2 Data Labs works with best-in-class partners to provide IT infrastructure and to power its analytics ecosystem. This approach ensures Rolls-Royce can take advantage of the best open source technologies available and quickly respond, or co-create, to meet the fast-changing innovation needs of its customers. The launch of R2 Data Labs follows the recently announced partnership with Tata Consultancy Services (TCS), giving Rolls-Royce a new digital platform capability. The platform enables data to be captured, shared and analyzed more easily across all areas of Rolls-Royce, so that new products and services can be developed at pace. This complements a preferred-partner agreement with Microsoft for cloud solutions, and positions Rolls-Royce closely alongside two globally recognized digital service providers.

R2 Data Labs has data innovation capability hubs in the United Kingdom, United States, Germany, Singapore, India and New Zealand.

**Air Canada** and **Air China** will expand their mutual codeshare services and lounge agreement in time for the 2018 Canada-China Year of Tourism, recognizing the importance of tourism and trade between the two countries. As Air Canada and Air China work toward finalizing their planned joint venture, while satisfying both countries' applicable regulatory conditions, the two Star Alliance carriers also launched their first joint frequent flyer promotion. This offers the carriers' respective Aeroplan and PhoenixMiles

members up to 30% bonus miles effective December 15, 2017 for eligible travel between April 1, 2018 and June 15, 2018 on all flights between Canada and China operated by Air China and Air Canada. As a result of the code-share expansion, Air China will place its code on Air Canada's new daily Montreal-Shanghai flight, as well as Air Canada's flights from Vancouver to Victoria, Kelowna, Saskatoon, and Regina. In addition, Air Canada will place its code on Air China's flights between Beijing and Zhengzhou, Xiamen, Shenzhen and Nanjing, as well as Air China's flight between Montreal-Havana, Cuba. The expanded code-share cooperation is planned to come into effect in April 2018, subject to regulatory and government approvals.

**Norwegian** has acquired an additional 28 weekly slots at **London Gatwick Airport** from summer 2018. The take-off and landing slots, purchased from Small Planet Airlines, will allow Norwegian to plan for continued growth at Gatwick. The airport is at the heart of Norwegian's fast-growing UK operation, where the airline already flies more than 4.6 million passengers each year to over 30 global destinations. Norwegian's route network at Gatwick includes affordable long-haul flights to nine US cities and Singapore, with further long-haul routes to Argentina, Chicago and Austin, launching early next year.

**Czech Airlines Technics (CSAT)**, a daughter company of the **Czech Aeroholding Group** providing aircraft repair and maintenance services, and the **Faculty of Transportation Sciences** of the **Czech Technical University in Prague (CTU)**, have signed a Memorandum of Co-operation in the field of aviation. The organizations are to work together on projects, share professional knowledge, and promote the interconnection between the academic field and practice. Students will get the opportunity to join a long-term vocational training program run directly on CSAT's premises. They will experience real operations and get the chance to draft their graduation thesis during the internship. The organizations will join forces when working on specialized aviation-related matters, e.g. on the evaluation of operational reliability or safety in the field of aircraft maintenance, alongside other issues. The co-operation will be pursued predominantly with the Air Transport Department of the Faculty of Transportation Sciences of CTU. Concurrently, Czech Airlines Technics will provide the university with decommissioned or damaged aircraft parts to be used by students during lectures to learn, for example, how to identify particular defects.

In a press conference on Tuesday, December 12, the **German Airline Pilots Association, Vereinigung Cockpit (VC)**, has announced that from today onwards, strike action within low-cost carrier **Ryanair** can be anticipated at any time. The intention behind the action is to assist Pilots at Ryanair with their collective bargaining process for fair and transparent working conditions. Management at Ryanair has always claimed that its pilots' terms are benchmarked against competitor B737 operators, so the German Ryanair Company Council used **TUIfly** as a comparison.

According to Ingolf Schumacher, Head of the VC's Industrial Negotiating Department, "The Ryanair pilots need to end the systematic social dumping, this can only be accomplished with trade union support. If we don't do it now, when will there be another chance?"

Ryanair is currently experiencing the departure of what is understood to be a large number of pilots owing to high European and worldwide demand for pilots, resulting in the cancellation of several flights through crewing issues

The initial industrial action is being called by several pilot unions, with Italian pilots' association planning strike action within the next few days. Portugal will provide more information about their plans the next days, while yesterday, pilots in Ireland voted for the implementation of industrial action.

Ilja Schulz stated that: "Ryanair can stop the German industrial action right now by declaring the willingness to negotiate proper terms and conditions of work and remuneration, a last chance is still being offered," adding "Otherwise, Ryanair will be fully responsible for future industrial actions."

VC has been keen to clarify that for those passengers who are traveling in the Christmas period between the afternoon of December 23 and including December 26, there will be no disruptions due to industrial action.

## INDUSTRY PEOPLE

- **Andrew Kemmetmueller** has joined AAR in the newly created position of Chief Digital Officer, reporting to President and Chief Operating Officer, **John M. Holmes**. Kemmetmueller brings with him 17 years of aviation experience, most recently as the head of Aviation at Uptake, a prominent Chicago data science company, where he led his team to develop solutions for airlines and to solve problems in flight operations, maintenance and scheduling. Prior to Uptake, Kemmetmueller was with Gogo, a leading in-flight internet provider, and also ran his own consulting firm that worked with over 200 airlines.

INDUSTRY PEOPLE



Ron Jennings

• **Ron Jennings** has joined the C&L Aviation Group as Regional Sales Manager. Jennings will assist C&L's corporate aviation customers with maintenance packages, including modifications, avionics upgrades, interior and paint services. Jennings' experience includes 33 years in the corporate aviation industry. Prior to C&L, he served as Vice President Technical Sales and Services at J.A. Air Center near Chicago, IL and also at Constant Aviation.



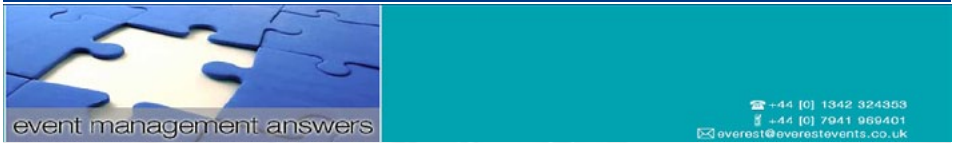
Stewart R. Cordner

• **Stewart R. Cordner** has been appointed as Senior Vice President Commercial, SuperJet International (SJI). He joins SJI to take a leading role in the Sales & Marketing activities of the Sukhoi Superjet 100 (SSJ100) Program. Stewart and his team, based in Venice (Italy), will have the responsibility for delivering on SSJ100 sales and significantly expanding the aircraft's sales campaigns in the coming years.

• ENAC, the French national school of civil aviation, has appointed **Olivier Chansou** to the position of Director of the school. Olivier Chansou, an engineer and member of the Corps des Ponts, des Eaux et des Forêts, will become the 8<sup>th</sup> director of ENAC. He will succeed **Marc Houalla**, who has occupied the position since November 2008. Olivier Chansou graduated from ENAC in 1988 and earned his degree as an engineer in Civil Aviation in 1993. He also holds a master's degree in computer science and parallel computing.

• United Airlines has named **Kate Gebo** Executive Vice President, Human Resources and Labor Relations, replacing **Mike Bonds**, who announced his retirement earlier this year. Gebo will report directly to CEO **Oscar Munoz**. She currently serves as senior vice president and chief customer officer, where she oversees all of United's customer-facing teams from booking to landing. Gebo has more than 20 years of airline experience, working in several functions at United, including leading the real estate function to work with airports worldwide to improve the overall customer experience through new facilities and services.

Recommended Events



Operating Lease Seminar 2018

March 20, 2018 - Hilton Garden Inn Hotel, Dallas

Aircraft Records & Total Asset Management Seminar 2018

April 18, 2018 - Gibson Hotel, Dublin, Ireland

Technical Aspects of a Leased Asset 2018

June 5, 2018 - Jury's Inn Hotel, Prague

Maintenance Reserves Seminar 2018

June 6, 2018 - Jury's Inn Hotel, Prague

[Click here for more aviation events](#)

• Spirit Airlines has released that **Ted Christie**, Executive Vice President and Chief Financial Officer, will assume the position of President and will join the company's Board of Directors effective January 1, 2018. In his management role, Christie will have overall responsibility for the finance, revenue, operations, IT and human resources' functions of Spirit's business. Christie will also become Spirit's Chief Executive Officer on January 1, 2019, succeeding **Bob Fornaro**.

• The Board of Directors of Airbus has decided on a series of Executive changes that ensure an orderly succession in the Executive leadership of Airbus. **Tom Enders** has advised the Board that he does not wish to seek another term as Chief Executive Officer (CEO) beyond his current mandate which runs until the 2019 Annual Shareholders Meeting (April 2019). **Fabrice Bréquier**, Airbus Chief Operating Officer (COO) & President Airbus Commercial Aircraft, has indicated to the Board that, as he does not intend to be part of the selection process for the CEO position in 2019, he will step down in February 2018 and pursue other interests. **Guillaume Faury**, currently CEO of Airbus Helicopters, will succeed Bréquier in his role as President Airbus Commercial Aircraft. During 2018 the Board of Directors will assess both internal and external executives for the CEO role with a view to announcing Tom Enders' successor in good time for confirmation at the 2019 AGM.

AVITRADER

AviTrader Publications Corp.

Suite 305, South Tower

5811 Cooney Road

Richmond, BC

Canada V6X 3M1

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### Commercial Jet Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
A319-100	ORIX Aviation	CFM56-5B5/P	2385	2005	Q1/2019	Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 871774524
A320-200	Castlelake	V2527-A5	2288	2003	Q4/2018	Lease	Michael Hackett	michael.hackett@castlelake.com	+44 20 7190 6120
A320-200	Castlelake	V2527-A5	2161	2003	Q4/2018	Lease	Michael Hackett	michael.hackett@castlelake.com	+44 20 7190 6120
A330-200	FPG Amentum	PW4168A	943	2008	Q2/2018	Sale / Lease	Eoin Kirby	eoin.kirby@fpg-amentum.aero	+353 1 6398118
A330-200	FPG Amentum	PW4168A	962	2008	Q2/2018	Sale / Lease	Eoin Kirby	eoin.kirby@fpg-amentum.aero	+353 1 6398118
A330-223	FPG Amentum	PW4168A	979	2009	Now	Sale / Lease	Eoin Kirby	eoin.kirby@fpg-amentum.aero	+353 1 6398118
A330-223	FPG Amentum	PW4168A	1002	2009	Now	Sale / Lease	Eoin Kirby	eoin.kirby@fpg-amentum.aero	+353 1 6398118
A340-300	GA Telesis	CFM56-5C4	433	2001	Q1/2018	Sale	Kevin Milligan	kmilligan@gatelesis.com	+1 954-676-3111
A340-300	GA Telesis	CFM56-5C4	541	2003	Q1/2018	Sale	Kevin Milligan	kmilligan@gatelesis.com	+1 954-676-3111
B737-300	Aersale	CFM56-3	27707	1995	Now	Sale / Lease	Craig Wright	craig.wright@aersale.com	+1 305 764 3238
B737-300	Aersale	CFM56-3	27926	1995	Now	Sale / Lease	Craig Wright	craig.wright@aersale.com	+1 305 764 3238
B737-400	Safair Operations	Freighter	East Africa	Dec 2017	ACMI only		C. Schoonderwoerd	corneliss@safair.co.za	+27 11 928 0000
B737-400	Aersale	CFM56-3C1	27149	1993	Now	Sale / Lease	Craig Wright	Craig.Wright@aersale.com	+1 305 764 3238
B737-400	Aersale	CFM56-3C1	25417	1991	Now	Sale / Lease	Craig Wright	Craig.Wright@aersale.com	+1 305 764 3238
B737-800	ORIX Aviation	CFM56-7B26	34701	2006	Q1/2018	Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 871774524
B737-800	ORIX Aviation	CFM56-7B24E	40287	2012	Q1/2019	Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 871774524
B737-800	ORIX Aviation	CFM56-7B26/3	37258	2011	Q2/2019	Sale	Oisin Riordan	oisin.riordan@orix.ie	+353 871774524
B737-800	FPG Amentum	CFM56-7B24E	40150	2013	Q1/2018	Sale / Lease	Eoin Kirby	eoin.kirby@fpg-amentum.aero	+353 1 6398118
B737-800	FPG Amentum	CFM56-7B26E	40153	2013	Q1/2018	Sale / Lease	Eoin Kirby	eoin.kirby@fpg-amentum.aero	+353 1 6398118
B737-800	Aersale	CFM56-7B26	32917	2002	Q1/2018	Sale / Lease	Sally Browne	Sally.Browne@aersale.com	+353 86 021 4841
B737-800	Aersale	CFM56-7B26	32624	2001	Q1/2018	Sale / Lease	Sally Browne	Sally.Browne@aersale.com	+353 86 021 4841
B737-800	World Star Aviation Services	CFM56-7B26	32604	2002	Now	Lease	Paulo Bettencourt	pbettencourt@worldstaraviation.com	+1 415-956-9454
B747-400	Bristol Associates		28812	1999	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B747-400	Bristol Associates		30023	2000	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B747-400	GA Telesis	RB211-524	26637	1992	Now	Sale	Eddo Weijer	eweijer@gatelesis.com	+1 954 676 3111
B747-400	GA Telesis	PW4000	29950	2000	Now	Sale	Stuart Weinroth	sweinroth@gatelesis.com	+1 954 676 3111
B747-400BCF	Jet Midwest	PW4056-3	27044	1990	Now	Sale / Lease	Kevin Lee	aircraft@jetmidwest.com	+1-310-652-0296
B757-200	ORIX Aviation	RB 211-535E4	27810	1995	Q1/2019	Sale	Oisin Riordan	oisin.riordan@orix.ie	+353 871774524
B757-200F	Aerolease	RB211	22211		Now	Sale / Lease	Tim Corley	tcorley@aerolease.com	+1 (360) 870-9172
B757-200F	Aerolease	RB211	22611		Now	Sale / Lease	Tim Corley	tcorley@aerolease.com	+1 (360) 870-9172
B777-200ER	GA Telesis		28999		Now	Sale	Stuart Weinroth	sweinroth@gatelesis.com	+1 954 676 3111
B777-200ER	GA Telesis		28523		Now	Sale	Stuart Weinroth	sweinroth@gatelesis.com	+1 954 676 3111
DC8	Aersale	No engines	46094	1969	Now	Sale	Craig Wright	Craig.Wright@aersale.com	+1 305 764 3238

### Regional Jet / Turboprop Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
CRJ-200LR	Regional One	CF34-3B1	7484	2001	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
CRJ-700	Regional One	CF34-8C5B1	10246	2006	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
CRJ-700	Regional One	CF34-8C5B1	10029	2001	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
CRJ-900LR	Regional One	CF34-8C5	15057	2005	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164

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### Regional Jet / Turboprop Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
DASH8-102	Magellan Aviation Group	PW121	113	1988	Now	Sale / Lease	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
DASH8-311	Regional One	PW123B	323	1992	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
DASH8-311	Regional One	PW123B	325	1992	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
DASH8-311	Magellan Aviation Group	PW123	266	1991	Now	Sale / Lease	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
Dornier 328-300	Regional One	PW306B	3145	2000	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
Dornier 328-300	Regional One	PW306B	3185	2001	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
E170	AerFin	CF34-8E	121		Now	Sale / Lease	Oliver James	Oliver.James@aerfin.com	+44 (0) 2920109898
E170	AerFin	CF34-8E	123		Now	Sale / Lease	Oliver James	Oliver.James@aerfin.com	+44 (0) 2920109898
ERJ-145	Regional One	AE3007A1P	145291	2000	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
SF340B	Jet Midwest	CT7-9B	320	1992	Now	Sale / Lease	Kevin Lee	aircraft@jetmidwest.com	+1-310-652-0296

### Commerical 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
(1) AE3007A1	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(3) AE3007A1P	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 786-623-3936
(2) AE3007	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1 954 676 3111
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 - Lease				
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				
(1) CF34-10E5A1	Now - Sale / Lease	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(1) CF34-3B1	Now - Sale				
(1) CF34-8C5/B1	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(8) CF34-8E	Q4/2017 - Sale / Lease	AerFin	Oliver James	Oliver.James@aerfin.com	+44 (0) 2920109898
(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
(1) CF34-10E7	Now - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
CF6 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CF6-80C2B1F	Now - Sale / Lease	AerSale. Inc.	Alan Kehoe	Alan.Kehoe@aersale.com	+353 879 393 534
(1) CF6-80C2A5	Now - Sale / Lease		Alan Kehoe	Alan.Kehoe@aersale.com	+353 879 393 534
(1) CF6-80C2B6F	Now - Sale / Lease		Matthew White	matthew.white@aersale.com	+353 1475 3005
(1) CF6-80C2B7F	Now - Sale / Lease		Matthew White	matthew.white@aersale.com	+353 1475 3005
(1) CF6-80C2B7F	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(5) CF6-80C2B1F	Now - Sale			aircrafttrading@gatelesis.com	



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CFM56 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CFM56-3C1	Now - Sale / Lease	Royal Aero	Calum MacLeod	calum@royalaero.com	+49 8025 993610
(1) CFM56-5A3	Nov 17 - Sale / Lease				
(2) CFM56-5B	Now - Sale / Lease	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(2) CFM56-7B26	Now - Sale				
(1) CFM56-7B26/E	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CFM56-7B26/3	Now - Lease				
(1) CFM56-5B6/3	Now - Lease				
(2) CFM56-5C4/P	Now - Sale / Lease	Castlelake	Stuart MacGregor	stuart.macgregor@castlelake.com	+44 207 190 6138
(1) CFM56-7B26	Now - Sale/Lease/Exch.	AerSale. Inc.	Alan Kehoe	Alan.Kehoe@aersale.com	+353 879 393 534
(2) CFM56-3C1	Now - Sale / Lease				
(2) CFM56-5A	Now - Sale	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
(1) CFM56-5C4	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) CFM56-7B20 TRUEngine™	Now - Sale / Exchange	CFM Materials	Jimmy Hill	Jimmy.Hill@cfmmaterials.com	+1 214-988-6670
(1) CFM56-7B24 TRUEngine™	Now - Sale / Exchange				
(1) CFM56-7B27 TRUEngine™	Now - Sale / Exchange				
(1) CFM56-5B4/P TRUEngine™	Now - Sale / Exchange				
(2) CFM56-5C3/F4	Now - Sale/Lease/Exch.	AerFin	R. Rosser		+442921676296
(7) CFM56-5C4	Now - Sale/Lease/Exch.				
(1) CFM56-5B	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@wernerairo.com	+1-703-402-7430
(1) CFM56-7B	Now - Sale/Lease/Exch.				
(1) CFM56-5B4/3	Now - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
(1) CFM56-5C4/P	Now - Lease				
(1) CFM56-5C4	Now - Lease				
(1) CFM56-7B26/3	Now - Lease				
(1) CFM56-7B26	Oct 2017 - Lease				
(1) CFM56-5B4/P	Now - Lease				
(1) CFM56-7B24/3	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	Jeffrey Young	jeff@azureres.com	+1-954-796-8158
(1) JT9D-7R4D-E	Now - Sale/Lease	Jet Midwest	Kevin Lee	engines@jetmidwest.com	+1-310-652-0296
(1) JT8D-219	Now - Sale	GA Telesis	Eddo Weijer	eweijer@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>
(1) PW121 (Dash 8)	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) PW123B/D/E	Now - Sale / Lease				
(1) PW124B	Now - Sale / Lease				
(1) PW121 (ATR)	Now - Sale / Lease				
(1) PW127E/F/M	Now - Sale / Lease				
(1) PW150A	Now - Sale / Lease				
(2) PW121 (ATR)	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	ddesaulniers@willislease.com	+1 415 516 4837
(2) PW121-8	Now - Sale/Lease/Exch.				
(1) PW123	Now - Sale/Lease/Exch.				
(1) PW127	Now - Sale/Lease/Exch.				
(2) PW150A	Now - Sale/Lease/Exch.				
(1) PW127M	Now - Sale/Lease/Exch.				
(2) PW127F	Now - Sale/Lease/Exch.				
(2) PW124B	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				

### Commerical Engines (cont.)

PW127M	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
PW150 GRB	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
<b>PW4000 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(2) PW4056-1	Now - Sale/Lease/Exch.	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(1) PW4056-3	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) PW4168A-1D	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) PW4056-3	Now - Sale/Lease	Jet Midwest	Kevin Lee	engines@jetmidwest.com	+1-310-652-0296
(1) PW4060-3	Now - Sale / Lease	AerSale. Inc.	Matthew White	matthew.white@aersale.com	+353 1475 3005
(1) PW4062-3	Now - Sale / Lease		Matthew White	matthew.white@aersale.com	+353 1475 3005
(1) PW4056-3	Now - Sale / Lease		Alan Kehoe	Alan.Kehoe@aersale.com	+353 879 393 534
<b>RB211 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) RB211-535	Now - Sale/Lease	Jet Midwest	Dave Williams	dave.williams@jetmidwest.com	+1-817-791-4930
<b>Trent Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(3) Trent 800	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(1) Trent 892	Now - Sale/Lease/Exch.	AerSale. Inc.	Matthew White	matthew.white@aersale.com	+353 1475 3005
(2) Trent 892	Now - Sale / Lease	TrueAero, LLC.	Matt Parker	mparker@trueaero.com	+1 469-607-6110
(4) Trent 556	Now - Sale / Lease				
(1) Trent 772B	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Bobby Janagan	bobby.janagan@rolls-royce.com	+44 20 7227 9078
<b>V2500 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
1) V2533-A5 w/QEC	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Bobby Janagan	bobby.janagan@rolls-royce.com	+44 20 7227 9078
(1) V2533-A5	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@werneraero.com	+1-703-402-7430

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

Description		Company	Contact	Email	Phone
(1) A320-200 Landing Gear	Now - Sale	TrueAero, LLC	Matt Parker	mparker@trueaero.com	+1 469-607-6110
(1) A330-300 Landing Gear	Now - Sale				
(2) A340-600 Landing Gear	Now - Sale				
(1) A340-300 Landing Gear	Now - Sale				
(2) GTC331-500	Now - Sale				
(2) GTC331-350C	Now - Sale				
(1) GTC331-150RJ, (2) GTC331-100M,	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) RE220RJ, (1) PW126 RGB, (1) PW901A					
(1) APS1000-C12, (1) APS1000-C3					
GTC331-9A (2), GTC331-9B(2)	Now - Lease	REVIMA APU	Olivier Hy	olivier.hy@revima-apu.com	+33(0)235563515
GTC331-200, GTC331-250	Now - Lease				
APS500C14(3), APS1000C12(2), APS2000	Now - Lease				
APS2300, APS3200(2), APS5000(2)	Now - Lease				
PW901A(4), PW901C(2)	Now - Sale / Lease				
TSCP700-4E	Now - Sale				
Neutral CFM56-5B & CFM56-7B QEC Kits	Now - Sale	CFM Materials	Michael Arellano	michael.arellano@cfmmaterials.com	+1 214-988-6676
GTC331-9A, GTC331-9B, GTC331-350C	Now - Sale/Lease/Exch.	Logix.Aero	Jean-Christian Morin	jcmorin@logix.aero	+33.6.4782.4262
GTC331-500B, GTC331-200/250,			Rich Lewsley	rlsley@logix.aero	+44.79.0021.8657
APS3200, APS2300, GTC331-129H					
APU GTC331-500	Now - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
Engine stands now available	Now - Lease				
(2) GTC331-9B, (2) GTC331-9A	Now - Sale / Lease	GA Telesis	Dave Dicken	ddicken@gatelesis.com	+1 954-676-3111
B737-400 main landing gears, with 2015 tags		World Star Aviation Services	Tommy Guttman	tguttman@worldstaraviation.com	+972-544-22000
767-300ER 413K LANDING GEAR	Now - Sale	Azure Resources	Jeffrey Young	jeff@azureres.com	+1-954-796-8158
737-300/400 LANDING GEAR					
CFM56-3 MODULES					
ENGINE STANDS: Trent 800, PW4000 112"/V2500		National Aero Stands		support@stands.aero	+ 1 305-558-8973
/ CFM56/ PW2000 & Bootstrap kits					
GTC331-9A, GTC331-9B	Now - Sale / Lease	Werner Aero Services	Julien Levy	jlevy@Werneraero.com	+1 201-674-9999
GTC331-300A, 737-800 Winglets	Now - Sale / Lease				
737-700 & 737-800 Landing Gear	Now - Sale / Lease				
737-800 NOSE LANDING GEAR PN 162A1100-5, OH - Now Sale		Reliance Aircraft	Terry Hix	thix@relianceaircraft.com	+1 512-439-6988
767-300 Winglets, LH-RH P/N 767-0010-7 & -8					
(2) PW901A, (1) PW901C(1), PW125B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368