

AviTRADER WEEKLY AVIATION HEADLINES

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WORLD NEWS

More Malaysia Airlines grief

The US stock market fell sharply on fears of renewed hostilities after the news that a Malaysian Airlines flight was allegedly shot down over eastern Ukraine, with all 298 people on board reported dead. US vice president Joe Biden said the plane was "blown out of the sky", apparently by a surface-to-air missile as the Boeing 777 jet cruised at 33,000 feet, some 1,000 feet above a closed section of airspace. Ukraine has accused pro-Russian "terrorists" of shooting the plane down with a Soviet-era SA-11 missile as it flew from Amsterdam to Kuala Lumpur.

Record show for CFM Int'l

CFM International, the 50/50 joint company between Snecma (Safran) and GE, celebrated record sales worth some \$21.4bn at Farnborough. The company signed orders, commitments and long-term service agreements for a total of 1,062 engines, including 200 LEAP-1A and 70 CFM56-5B engines to UK low-cost carrier easyJet. American Airlines also selected the LEAP-1A to power 100 Airbus A320neo aircraft.

Cathay Pacific on top

Cathay Pacific, Hong Kong's flag carrier, was named top airline for 2014 in the annual Skytrax World Airline Awards, announced at the Farnborough Airshow. The airline rose from sixth place to take over from last year's winner, Qatar Airways. Asian and Middle Eastern airlines dominated the top-10, while Turkish Airlines climbed from 9th to 5th and Germany's Lufthansa moved into 10th spot. Qantas dropped out of the top-10 to finish 11th overall.



The Airbus A350 XWB was a guest of honour at Farnborough (left) last week as it nears its service entry date with Qatar Airways later this year.

Airbus

Records fall at Farnborough as sales pass \$135 billion

Airbus, CFM International beat forecasts with new highs at UK show

The 2014 Farnborough International Airshow closed its doors last week safe in the knowledge that it had broken records on many fronts - not least on total orders and commitments for Airbus and Boeing aircraft, which hit a combined \$115.5bn at list prices for 697 aircraft - over 60% higher than their sales at the previous show in 2012.

Airbus was the clear winner over the course of the show, posting firm orders for 358 aircraft worth \$38.4bn and MoUs for another 138, worth €36.9bn. It received 121 commitments for its re-engined A330neo widebody, which was launched at the show, including an MoU for 50 of the larger model, the A330neo 9, from Malaysian low-cost carrier AirAsiaX.

Boeing ended the show with orders and commitments for 201 aircraft worth \$40.2bn, comprising 106 firm orders worth nearly \$29bn. Its largest order came from Qatar Airways, which firmed up a previous commitment for 50 777-9X wide bodies, in a deal worth nearly \$20bn.

Airbus has now moved ahead of

Farnborough International Airshow: Major orders*

Airframer	Customer	Order	Value ¹
Boeing 777	Qatar Airways	50 777-9X	\$19bn
Boeing 777, 737	Air Lease	6 777-300ER, 20 737 MAX	\$3.9bn
Airbus A320 family	SMBC	110 A320neo, 5 A320ceo	\$11.8bn
Airbus A320 family	Air Lease	60 A321neo	\$7.23bn
Embraer E-Jet	Trans States	50 E175 E2	\$2.4bn
ATR	NAC	75 ATR 42-600s	\$1.55bn
Engine manufacturer	Customer	Order	Value*
CFM International	Easyjet	200 LEAP 1A, 70 CFM56-5B	\$3.3bn
CFM International	American	LEAP 1A for 100 A320neos	\$2.6bn
CFM International	9 Air	LEAP-1B for 50 Boeing 737 MAX ²	\$3.7bn
Rolls-Royce	CIT Group	Trent 7000s for 15 A330neos	

*Firm orders only ¹List prices ²Includes aftermarket services

Source: Companies

its rival in the order stakes for the year so far, with over 870 purchase orders, compared to Boeing's total of some 810. At the end of the first half, Boeing had pulled ahead of Airbus with 553 orders to 515, adding an order for 150 777Xs from Emirates in the first week of July.

Brazilian airframer Embraer also came away with a healthy order book for its re-engined E2 regional jet. Trans States Holdings, parent of three US regional carriers, orders 100 E175 E2 jets,

while Brazilian carrier Azul made a commitment to buy up to 50 E195 E-Jets.

This year's show was also a bumper year for engine manufacturers, with CFM International posting record sales, commitments and aftercare deals worth \$21.4bn. The Snecma/GE joint venture company nearly doubled its sales of LEAP engines over the four days of the show, winning well over 800 orders for the new engine that will power the A320neo family and Boeing 737 MAX.



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AIRCRAFT & ENGINE NEWS

Qatar Airways orders GE90-powered Boeing 777 Freighters

Qatar Airways ordered four GE90-powered Boeing 777 Freighters, with an option for an additional four 777 Freighters. The firm engine order is valued at more than \$250m list price.

Boeing, Air Algerie announce order for two Next-Generation 737-700Cs

Boeing and Air Algerie announced an order for two Next-Generation 737-700C (Convertible) airplanes, valued at \$152m at current list prices. The order continues Air Algerie's fleet renewal and expansion following January's order for eight 737-800s. The addition of

SMBC Aviation Capital orders 115 Airbus aircraft

SMBC Aviation Capital, the world's third largest aircraft lessor, placed a firm order with Airbus for 110 A320neo aircraft and five A320ceo aircraft in a deal worth around \$11.8bn at list prices. The deal is the largest single-aisle aircraft order ever placed by a lessor and the largest aircraft order of any kind by a Japanese-owned lessor. As part of the order, SMBC Aviation Capital has options to convert the majority of the A320neo aircraft and all of the A320ceo aircraft into the A321 variants. The company will announce its engines selection at a later date.



SMBC led the orders at Farborough with a purchase of 110 A320neos

Airbus

Introducing the Airbus A300neo: As expected, Airbus reveals plans for re-engined A330**Airbus launches the A330neo**

Airbus launched the A330-800neo and A330-900neo, two new members of its Widebody Family, which will incorporate latest generation Rolls-Royce Trent 7000 engines, aerodynamic enhancements and new cabin features. Benefitting from the unbeatable economics, versatility and high reliability of the A330, the A330neo reduces fuel consumption by 14% per seat, making it the most cost efficient, medium range Widebody aircraft on the market. In addition to greater fuel savings, A330neo operators will benefit from a range increase of up to 400 nautical miles and all the operational commonality advantages of the Airbus Family. Deliveries of the A330neo will start in Q4 2017. In addition to the new Rolls-Royce Trent 7000 engines, the A330neo will feature incremental innovations, including aerodynamic enhancements such as new A350 XWB inspired winglets, an increased wing span and new engine pylons. Pilots will benefit from latest generation cockpit systems, and the already very comfortable A330 cabin will be further optimised to offer up to ten additional 18 inch wide seats. Passengers are winners too, as they will be able to enjoy a 21st century on-board experience with for example, fourth generation In Flight Entertainment (3D films), mood-lighting and full connectivity.

Airbus selects Rolls-Royce Trent 7000 as exclusive engine for the A330neo

Airbus selected Rolls-Royce's new Trent 7000 as the exclusive engine for the new Airbus A330neo. The Trent 7000, launched on Monday July 14th, is the seventh member of the Trent engine family. Over the last 19 years, Rolls-Royce Trent engines have accumulated more than 75 million flight hours. The majority of modern widebody aircraft, either in service or on order, are powered by Trent engines. The new Trent 7000 engine brings together:

- Experience from the Trent 700 – the engine

of choice for the current A330,

- Architecture from the Trent 1000-TEN – the latest version of the Trent 1000 engine
- Latest technology from the Trent XWB – the most efficient large civil engine

The 68-72,000lb thrust Trent 7000 will deliver a step change in performance and economics compared to the current version of the Trent 700. It will improve specific fuel consumption by 10%; have twice the bypass ratio; and will halve perceived noise. The first engine test run for the Trent 7000 is planned for 2015 with certification expected in 2017, supporting an aircraft entry into service in Q4 2017. The engine design draws upon existing architectures and expertise which are the result of ongoing research and development investment, of approximately £1bn a year, which Rolls-Royce makes across its aerospace and non-aerospace businesses.

AirAsia X and Avolon, launch customers for new version of best-selling widebody

AirAsia X, the long haul affiliate of Asia's largest low cost airline, has signed a Memorandum of Understand (MOU) with Airbus for 50 A330-900neo aircraft. The agreement sees the airline become a launch customer for the latest version of the best-selling widebody. AirAsia X will also be one of the first operators of the

aircraft, with deliveries to the carrier scheduled to begin in 2018.

Avolon, the international aircraft leasing group, and Airbus announced Avolon's commitment to buy 15 Airbus A330neo aircraft. This order represents the launch of the newly re-engined A330. This commitment brings Avolon's owned, managed and committed fleet to 222 aircraft.



Celebrating Avolon's commitment to buy 15 A330neos

Airbus

737-700Cs to the Algerian-flag carrier's fleet will provide the airline with increased flexibility depending on passenger and cargo demands. The order was booked in May 2014 and previously posted as unidentified on the Boeing Orders & Deliveries website.

Boeing, Jordache's MG Aviation finalize order for two 787-9 Dreamliners

Boeing and MG Aviation Limited finalized an order for two additional 787-9 Dreamliners, valued at \$499m at current list prices. The order will support the leasing company's growing fleet of modern airplanes. MG Aviation previously placed an order for two 787-9s in 2006 and now has four unfilled 787-9s orders.

Boeing, Air Lease Corporation announce 777-300ER, 737 MAX 8 order

Boeing and Air Lease Corporation signed an order for 26 airplanes – six 777-300ER (Extended Range) and reconfirmed 20 737 MAX 8 airplanes, valued at \$3.9bn at current list prices. This 737 MAX order for 20 airplanes brings Air Lease Corporation's combined orders for the 737 MAX to 104 airplanes. The 777-300ER order marks the 100th 777 order from ALC Chairman and CEO Steven Udvar-Hazy during his career in the industry.

Boeing, Okay Airways announce order for 737 MAXs, Next-Generation 737s

Boeing and Okay Airways announced an order for six 737 MAX 8s and four Next-Generation 737-800s, valued at \$980m at current list prices. Okay Airways, the first privately owned airline in China, also announced it will convert five 737-800s from a previous order into 737-900ERs (Extended Range). With this conversion announcement, Okay Airways will be the first airline in China to operate the 737-900ER and has eight of the airplanes on order.

Qatar Airways commits to additional 50 GE9X-powered Boeing 777X

Qatar Airways made a commitment for the purchase rights of an additional 50 GE9X-powered Boeing 777-9X aircraft. If exercised, the list price for these engines is valued at more than \$3.8bn. The additional commitment follows the finalization of Qatar's order

MAJOR NEW ORDERS FOR BOEING AT FARNBOROUGH

Boeing, Qatar Airways finalize order for 50 777Xs

Boeing and Qatar Airways finalized an order, first announced as a commitment at the 2013 Dubai Airshow, for 50 777-9Xs, valued at \$18.9bn at current list prices. In addition, the airline announced a commitment for 50 additional 777-9X purchase rights. If exercised, that would take Qatar's 777X order tally to 100 airplanes valued at \$37.7bn at list prices. Qatar Airways also announced their intent to order four 777 Freighters and options for four more, with a combined value of \$2.4bn at list prices.

Hainan Airlines signs commitment for 50 737 MAX 8s

Boeing and Hainan Airlines are finalizing terms and working toward a purchase agreement for 50 737 MAX 8s, reaffirming the Chinese airline's preference for an all-Boeing single-aisle fleet. The commitment, valued at more than \$5.1bn at current list prices, will be subject to the approval of the Chinese government and will be posted on Boeing's Orders & Deliveries website once all contingencies are cleared.



Hainan Airlines is set to upgrade its fleet with 50 new 737 MAX 8s
Boeing

Avolon to purchase six Boeing 787-9 Dreamliners

Avolon, the international aircraft leasing group, signed a commitment with Boeing to purchase six 787-9 Dreamliners. Avolon also reconfirms its order for five 737 MAX 9 aircraft, bringing Avolon's total order commitment for 737 MAX aircraft to 20. These commitments bring Avolon's owned, managed and committed fleet to 207 aircraft. The commitment to purchase six Boeing 787-9 Dreamliners is Avolon's first direct order for widebody aircraft from Boeing.

CIT places order for 10 787-9 Dreamliners

CIT Group, a global leader in transportation finance, announced from the Farnborough International Air Show that CIT Aerospace placed an order with Boeing for 10 787-9 Dreamliner aircraft.

for 50 GE9X-powered Boeing 777X that was placed during the Dubai Air Show in November. Qatar's total GE9X-powered 777X fleet could total 100 aircraft.

Monarch Airlines announces preference for LEAP-powered 737 MAX for fleet replacement order

Monarch Airlines is finalizing terms and

working towards a purchase agreement for 30 Boeing 737 MAX aircraft, to be powered by LEAP-1B engines. CFM values the engine order, when finalized, at \$1.9bn at list price, including a long-term service agreement. Under the terms of the Rate per Flight Hour (RPFH) service agreement, CFM will guarantee maintenance costs for all 60 LEAP-1B engines on a dollar per engine flight hour basis.



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Intrepid Aviation orders GE90-115B-powered Boeing 777-300ERs

Intrepid Aviation, a privately held commercial aircraft lessor, which owns commercial aircraft leased to airline operators worldwide, ordered up to ten Boeing 777-300ER aircraft, powered with GE90-115B engines.

Air Lease Corporation places order for GE90-powered Boeing 777-300ERs

Air Lease Corporation ordered six GE90-115B-powered Boeing 777-300ER aircraft. The engines are valued at more than \$400m list price.

Transaero Airlines commits to 20 A330s

Transaero Airlines, Russia's second largest airline, signed a Letter of Intent with Airbus for 20 A330 aircraft (8 A330ceo and 12 A330neo). This agreement makes Transaero an important launch customer and the first European airline to commit to the A330neo. The A330s will allow Transaero to continue the massive fleet modernization program and to boost its medium and long-haul domestic and international network.

Hong Kong Aviation Capital orders 70 A320neo Family aircraft

Hong Kong Aviation Capital (HKAC), a fast growing aircraft leasing company based in Hong Kong, has signed a firm order with Airbus for a total of 70 A320neo Family aircraft (40 A320neo and 30 A321neo). The contract was finalised at the 2014 Farnborough Airshow by Donal Boylan, CEO of HKAC and John Leahy, Airbus Chief Operating Officer, Customers. The agreement follows the Memorandum of Understanding (MoU) signed at the 2013 Paris Air Show.

Air Mauritius selects Airbus A350 XWB aircraft

Air Mauritius to select six Airbus A350 XWB aircraft, two of them leased, powered by Rolls-Royce's Trent XWB, the most efficient large civil aero engine.

IAG converts 20 A320neo options into firm orders

International Airlines Group (IAG) converted 20 of the 100 Airbus 320neo options, it announced in August 2013, into firm orders. These aircraft will be delivered in 2018 and 2019 and will provide both cost savings and environmental benefits. New technology and improved aerodynamics

EMBRAER NEWS FROM FARNBOROUGH

China's HNA Group Tianjin Airlines and ICBC Leasing sign purchase agreements for E-Jets and E-Jets E2

During Chinese President Xi Jinping's State visit to Brazil, Embraer S.A. concluded an agreement for the sale of 40 aircraft to China's Tianjin Airlines, a subsidiary of the HNA Group. The contract, with an estimated value of \$2.1bn at list prices, is comprised of 20 E-Jets and 20 E-Jets E2, which also makes HNA Group Tianjin Airlines the first Chinese airline to order the E-Jets E2 model. The first current generation E-Jet will be delivered in 2015, and the first E-Jet E2 is scheduled for delivery in 2018.



Brazilian president Dilma Rousseff and Chinese head of state Xi Jinping (above) witness the signing of the sale of Embraer E-Jets to Tianjin Airlines
Embraer

Embraer also inked a sales agreement for up to 20 E190-E2 Jets with China's ICBC Financial Leasing. The agreement covers ten firm orders and ten purchase rights. The firm orders for the first 10 aircraft will be included in Embraer's 2014 third quarter backlog. The E190-E2 is the first model of the E-Jets E2 family to enter into service. The value of the contract is \$1.1bn at list prices if all purchase rights are converted to firm orders. Deliveries are scheduled to begin in 2018.

Brazil's Azul signs LOI for up to 50 E195-E2 jets

Embraer signed a Letter of Intent (LOI) with Azul Linhas Aéreas Brasileiras for 30 firm orders for the E195-E2 jets. The firm order is expected to be completed by the fourth quarter of this year, when the aircraft will be added to the Company's backlog. Besides the firm order, the LOI includes additional 20 purchase rights for the same model, bringing the total potential order to up to 50 E195-E2 jets. The contract for the E-Jets E2 has an estimated value of \$3.1bn, at list prices, if all purchase rights are converted to firm orders. As the first airline to order the E195-E2, Azul becomes the launch launch operator for this aircraft. The 30 firm E195-E2 jets will be powered by Pratt and Whitney engines. Deliveries are scheduled to begin in 2020.

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Embraer releases 20-year market outlook

Embraer released its Market Outlook 2014-2033 which details the Company's forecast for deliveries of new 70 to 130-seat jet aircraft over the next twenty years. The report examines the main drivers contributing to air transport growth and reviews projected deliveries by world region. The Market Outlook identifies a need for 6,250 jet aircraft in the 70 to 130-seat capacity category (2,300 units in the 70 to 90-seat segment and 3,950 units in the 90 to 130-seat segment). Replacement of ageing aircraft will represent 56% of new deliveries and 44% will support market growth. The world fleet-in-service of jets with up to 130 seats will increase from 3,850 aircraft in 2013 to 6,580 by 2033. The value of all deliveries is approximately \$300bn. Embraer expects jets in the 70 to 130-seat category to sustain hub-and-spoke efficiency, to complement narrow-body operations, to provide an optimal balance of frequency and seats, and to encourage new market development with lower-risk, incremental capacity. Those roles will generate significant demand for new aircraft in the segment. Embraer foresees worldwide demand for air transport, measured by revenue passenger kilometers (RPKs), increasing an average of 4.8% annually through 2033. By then, demand will reach 13.6 trillion RPKs for all commercial aviation segments.

will lower fuel burn and CO2 emissions by 15%, as well as providing both noise and NOx performance advantages. Last year IAG announced that, as part of a Vueling order for up to 120 Airbus A320 family aircraft, it had also secured 100 A320neo options. The remaining options can be used for any of the airlines in the Group – British Airways, Iberia or Vueling – for aircraft replacement requirements. These aircraft are currently intended to replace 21 shorthaul British Airways' aircraft but will be reallocated if the airline cannot make a profitable return from its shorthaul business.

AerCap exercises options to purchase fifty A320neo family aircraft from Airbus

AerCap Holdings exercised options to purchase 50 A320neo family aircraft from Airbus. This transaction will bring AerCap's firm orders for A320neo family aircraft to a total of 200. Deliveries are expected to commence in 2015. The 50 options were part of an agreement signed in 2011 between Airbus and International Lease Finance Corporation (ILFC), which was acquired by AerCap earlier this year.

BOC Aviation orders additional 43 A320 Family aircraft

BOC Aviation announced an order with Airbus for an additional 43 A320 Family aircraft, comprising seven NEOs and 36 CEOs across A320 and A321 variants, scheduled for delivery in the period to 2019. The first eight A320ceo aircraft powered by engines from IAE have been placed. Engine decisions for the rest of the fleet will follow.

BOMBARDIER NEWS FROM FARNBOROUGH

African airline and existing Bombardier customer signs LOI to acquire five CSeries airliners

An African airline and existing Bombardier customer, who wishes to remain unidentified at this time, has signed a Letter of Intent (LOI) to acquire five CSeries airliners.

Petra Airlines of Jordan signs Letter of Intent to acquire up to four Bombardier CSeries airliners

Petra Airlines of Amman, Jordan signed a Letter Of Intent (LOI) to acquire up to four CS100 and CS300 airliners. Should the LOI be converted to Petra Airlines, based at Amman's Queen Alia International Airport, began as a charter carrier and became a scheduled airline in 2012. It serves destinations in Europe, the Middle East and North Africa. Under a firm purchase agreement, the transaction would include two firm-ordered CS100 aircraft and two options for CS300 aircraft.

Zhejiang Loong Airlines signs LOI for 20 Bombardier CSeries Airliners

Zhejiang Loong Airlines (Loong Air) signed a Letter of Intent to acquire 20 CS100 airliners. The operator, based in Hangzhou, the capital city of Zhejiang province, China began domestic service in 2013.



Zhejiang Loong Airlines set to buy 20 CSeries jets
Bombardier

Unidentified customer signs conditional purchase agreement for up to 13 Bombardier CS300 aircraft

A Bombardier customer, which has requested to remain unidentified at this time, has placed an additional conditional order for seven firm CS300 airliners as well as purchase rights for six additional CS300 aircraft. Based on the list price of the aircraft, a firm order for the seven CSeries aircraft would be valued at approximately \$553m.

Alaska Air Group places order for Q400 NextGen aircraft

Seattle-based Horizon Air Industries, signed a firm purchase agreement for one Bombardier Q400 NextGen turboprop airliner. The airline retains its options on another seven

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ASL Aviation Group signs LOI to procure Lockheed Martin LM-100J Freighters

ASL Aviation Group signed a Letter of Intent with Lockheed Martin to order up to 10 LM-100J commercial freighters. The LM-100J is the civil-certified version of Lockheed Martin's proven C-130J Super Hercules and is an updated version of the L-100 (or L-382) cargo aircraft. Safair — an ASL associated company based in South Africa — currently operates one of the world's largest L-100 fleets.

Rolls-Royce wins \$86m Trent 1000 order from Jordache's MG Aviation

Rolls-Royce won a \$86m order from lessor MG Aviation for Trent 1000 engines to power two Boeing 787-9 Dreamliners. The order is in addition to the two Trent 1000-powered Boeing 787 Dreamliners that MG Aviation, a division of the Nakash Family conglomerate, already has on order.

CIT and Rolls-Royce finalize agreement for Trent 7000 engines for Airbus A330-900neo family aircraft

CIT Group, a global leader in transportation finance, and Rolls-Royce announced from the Farnborough International Air Show that they signed a definitive agreement for 15 shipsets of Trent 7000 engines to power CIT's recent order of 15 Airbus A330-900neo (new engine option) family aircraft. Deliveries are initially scheduled to begin in 2018.

International Airlines Group signs MOU for V2500 engines to power 30 Airbus aircraft

International Airlines Group (IAG) signed a memorandum of understanding (MOU) with International Aero Engines' (IAE) for V2500 engines. IAE will power 30 A320ceo aircraft for the IAG subsidiary, Vueling Airlines. These aircraft were part of an IAG order announced in August 2013.

SaudiGulf Airlines selects V2500 engines for four aircraft order

SaudiGulf Airlines selected the International Aero Engines V2500 engine to power four A320ceo aircraft and has also signed an eight-year V-Service maintenance service agreement with IAE. SaudiGulf is a new airline based in the Kingdom of Saudi Arabia with headquarters in Dammam and is planning to commence services in 2015.

Trans States Holdings chooses P&W PurePower engines for 50 Embraer E-Jets

Pratt & Whitney entered into a letter of in-

ATR NEWS FROM FARNBOROUGH

Myanma Airways commits to up to 12 ATR 72-600s

Myanmar's state-owned national airline Myanma Airways, to be named Myanmar National Airlines in the near future, signed a deal with ATR for 6 new generation ATR 72-600s with options for 6 additional aircraft. The acquisition of these new ATRs forms part of the carrier's ambitious strategy to expand its global footprint to establish Myanma Airways as a major carrier in the region. In parallel with the new order, following the company's dynamic development efforts, ATR will assist Myanma Airways (Myanmar National Airlines) to enhance its maintenance capabilities through the set-up of a modern MRO in Yangon meeting the highest international standards. The new airplanes are scheduled for delivery in 2015 through to 2017. The new ATR 72-600s will complete and gradually replace the existing ATR fleet.

Air Lease Corporation orders 7 additional ATR 72-600s

European turboprop manufacturer ATR and the leasing company Air Lease Corporation signed an agreement for the purchase of seven additional ATR 72-600s. Air Lease Corporation has purchased ATRs every year since its first contract at Farnborough in 2010. With today's agreement, ALC now has 28 ATR 72-600s in its portfolio.

Nordic Aviation Capital adds 75 ATR 42-600s to portfolio

Nordic Aviation Capital signed a total order for 75 ATR 42-600 aircraft, in a deal valued at over \$1.55bn. Deliveries will commence in 2015 through to 2020. By confirming this order for new ATR 42-600s – which includes 25 firm orders and 50 options for the type – NAC is once again demonstrating its full confidence in ATR – and this time, the smaller 50-seater ATR 42-600 series, in response to operator demand and recognizing that the replacement market for sub 50-seat turboprops is very under-served.



NAC signed off on 75 ATR 42-600s at Farnborough

ATR

ATR reports new sales record for the first half of the year

At the Farnborough Airshow, the turboprop aircraft manufacturer ATR announced that it has taken firm orders for 144 aircraft (119 ATR 72-600 and 25 ATR 42-600), with options for 112 additional aircraft, since the beginning of the year. This year's contracts, of which many will be revealed during the week of the show, represent a total value of over \$3.45bn (\$6bn including options). These sales represent 150% compared to the total sales for the year 2013. They will allow ATR to further strengthen its leading position on the market for regional aviation, and thus confirm the predominance of turboprop aircraft, and particularly those of ATR, over short distances.

tent to provide exclusive power for 50 firm Embraer E-Jets E2 aircraft, for an order announced by Embraer and Trans States Holdings. Deliveries are scheduled to begin in 2020. The deal includes a 12-year PureSolu-tion maintenance service agreement.

Philippine Airlines to power new A320neos with P&W PurePower engines

Philippine Airlines executed a Letter of Intent

to power its order of 10 Airbus A320neo aircraft with Pratt & Whitney PurePower engines. The PurePower Geared Turbofan engine family has completed nearly 10,000 hours of testing and more than 1,400 hours of flight testing. The Letter of Intent between Philippine Airlines and Pratt & Whitney includes a long-term maintenance service agreement. The PurePower Geared Turbofan engine family has more than 5,500 orders and commitments, including options, from more than 50 global customers.



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P&W to provide PurePower engines on Air Mandalay order for six Mitsubishi Regional Jets

Pratt & Whitney will provide exclusive power for six firm Mitsubishi Regional Jets (MRJ) for an order announced by Mitsubishi Aircraft and Air Mandalay. Deliveries are scheduled to begin in 2018. The agreement includes a comprehensive 12-year Pure Solution maintenance plan for Air Mandalay's PW1200G engines.

VivaAerobus selects PurePower and V2500 engines for Airbus aircraft

VivaAerobus, Mexico's ultra-low cost carrier, selected Pratt & Whitney PurePower PW1100G-JM engines to power its order of 40 Airbus A320neo aircraft, plus 40 option. VivaAerobus also selected the IAE International Aero Engines V2500 engine to power its order for 12 A320ceo aircraft.

Loong Air selects CFM56-5B to power new A320ceo fleet

China's Zhejiang Loong Airlines: selected CFM International's CFM56-5B engine to power 11 Airbus A320ceo aircraft. CFM values the engine order and associated service agreement at nearly \$520m at list price, including spare engines. Under the terms of the Rate per Flight Hour (RPFH) service agreement, CFM will guarantee maintenance costs for all 24 CFM56-5B engines on a dollar per engine flight hour basis.

TRUEngine Program approaches 9,000 engines

The TRUEngine designation continues to gain significant customer acceptance, with engine enrollments expected to top 9,000 GE and CFM International (CFM) engines in coming weeks. Including announcements at the Farnborough Air Show, there are now 138 airlines participating in the GE and CFM TRUEngine Program. The number of TRUEngine MROs also is expanding, with Evergreen Aviation Technologies (EGAT) of Taiwan joining as a CF6 TRUEngine MRO. Independent TRUEngine MRO shops include ST Aerospace (CFM56) and Standard Aero (CFM56 and CF34).

Air Lease Corporation selects GENx engines for Boeing 787 Dreamliner fleet

Air Lease Corporation selected GENx-1B engines to power 30 Boeing 787 Dreamliner aircraft. The list price for the engine order is valued at more than \$1.4bn.

EASA certifies GP7272 and GP7272E engines

The European Aviation Safety Agency (EASA)

RECORD SALES FOR CFM INTERNATIONAL AT FARNBOROUGH

9 Air places \$3.7bn CFM engine order for 50 Boeing 737 aircraft

China's 9 Air ordered CFM International's LEAP-1B engine to power 30 Boeing 737 MAX aircraft, in addition to CFM56-7B engines to power 20 Next-Generation 737s. CFM values the order at \$3.7bn at list price, including spare engines and a long-term service agreement. The airplane orders were previously announced. Under the terms of the Rate per Flight Hour (RPFH) agreement, CFM will guarantee maintenance costs for all 105 LEAP-1B and CFM56-7B engines on a dollar per engine flight hour basis.



Executives from 9 Air celebrating their engine order with CFM International
CFM International

Interjet selects LEAP-1A engines to power A320neos

Interjet, one of Mexico's leading domestic airlines, selected CFM International's advanced LEAP-1A engine to power its new fleet of 40 Airbus A320neo family aircraft. The aircraft were originally announced in November 2012.

Air Lease Corporation places order for CFM LEAP-1B engines

Air Lease Corporation ordered a total of 40 LEAP-1B engines to power 10 new Boeing 737 MAX 8 aircraft as well as engines for 10 additional MAX 8 aircraft that were part of a previously unidentified order.

Avolon increases LEAP-1B engine order to power 737 MAX aircraft

Dublin-based international aircraft leasing company Avolon has increased its order for CFM International's LEAP-1B engine to power 20 new Boeing 737 MAX aircraft, including five 737 MAXs which it has today reconfirmed with Boeing. CFM values the total engine order at \$520m at current list prices.

American Airlines, easyJet and Spring Airlines choose CFM engines to power new fleets

American Airlines selected CFM International's advanced LEAP-1A engine to power its new fleet of 100 Airbus A320neo family aircraft. CFM values the engine order at \$2.6bn at list price. The aircraft order was originally announced in July 2011 and American will begin taking delivery in 2017. American also has orders for LEAP-1B engines to power 100 Boeing 737 MAX aircraft, which are also scheduled to be delivered beginning in 2017.

easyJet, one of Europe's leading airlines, announced an order with CFM International for 270 engines, including 200 LEAP-1A engines to power its Airbus A320neo family aircraft and 70 CFM56-5B engines to power additional A320ceo aircraft. CFM values the firm engine order at more than \$3.3bn at list price. The airline also has purchase rights for an additional 100 A320neo aircraft. The 100 A320neo and 35 A320ceo aircraft orders were originally announced in July 2013.

China's Spring Airlines selected CFM International's CFM56-5B engine to power 30 Airbus A320ceo aircraft. The engine order is valued more than \$620m at list price and the airline will begin taking delivery in 2015.



Executives from CFM International celebrate record sales at Farnborough
CFM International

has certified two new thrust ratings for the GP7200 engine. The first, GP7272, allows the GP7200 engine to operate at 72,000 pounds of thrust (lbf). The second, GP7272E, allows the engine to operate with the same thrust at higher ambient temperature environments. The GP7200 engine now has four thrust ratings: the GP7270 and GP7270E at 70,000 lbf, the GP7272 and GP7272E at 72,000 lbf. The existence of the two E-ratings enables the GP7200 engine to operate at full thrust beyond an ambient temperature of 30°C (86°F). The E-rating enables A380 operators to optimize payload without compromising fuel burn and maintenance cost.

GECAS delivers new leased A330 to China Airlines

GE Capital Aviation Services Limited (GECAS) announced delivery of a new leased Airbus A330 aircraft to China Airlines to modernize its fleet. The aircraft is from GECAS' existing order book with Airbus.

MRO & PRODUCTION

UTC Aerospace Systems extends long term C.A.R.E. agreement with All Nippon Airways

UTC Aerospace Systems extended its Comprehensive Accessory Repair and Exchange (C.A.R.E.) program with All Nippon Airways to provide repair services and asset management for the airline's Boeing 787 fleet expansion until 2021. The extended C.A.R.E. program now includes total repair and inventory support services for a total of 66 Boeing 787 aircraft, including the B787-8 and B787-9. Products supported under the agreement include air management systems, electric power generator and start system, emergency power system, primary and remote power distribution systems and auxiliary power control systems accessories. The original C.A.R.E. program started in 2011 and covered All Nippon Airways' first 50 B787 aircraft.

SAS and Lufthansa Technik expand cooperation by more than 150 C-checks

Scandinavian Airlines System (SAS) and Lufthansa Technik AG, headquartered in Hamburg, are expanding their long-standing close partnership even further. Under a new agreement that takes effect immediately and runs through the end of 2018, Lufthansa Technik will take on more than 150 C-checks for the airline's fleet of Boeing 737NG and Airbus A320 family aircraft. As a consequence, more than 100 aircraft

BOMBARDIER NEWS: Continued from page 6

Q400 NextGen aircraft as announced previously. Additionally, Bombardier and Horizon Air signed a five-year heavy maintenance agreement whereby Bombardier will perform heavy maintenance tasks for the airline's fleet of 52 Q400 aircraft at Bombardier's service centre in Tucson, Arizona.

Falcon Aviation Services signs LOI for five Bombardier Q400 NextGen Turboprop aircraft

Falcon Aviation Services of Abu Dhabi signed a Letter of Intent (LOI) for five additional Q400 NextGen airliners. The LOI is in addition to the order for two Q400 NextGen aircraft announced in February 2014 and an order for one firm aircraft placed in April 2014. The two companies signed a memorandum of understanding (MOU) whereby they agree to collaborate in addressing the need in Africa and the Middle East for multiple, high quality aircraft solutions which meet international standards.

Bombardier launches Cargo-Passenger combi variant for large turboprop market

Bombardier Aerospace launched a brand-new version of its versatile Q400 NextGen aircraft, a cargo-passenger combi configuration that will deliver the greatest payload capability and operational flexibility in its segment. The cargo-passenger combi Q400 NextGen aircraft is available in various configurations. In the lay-out that provides the highest payload capability, the aircraft offers up to 8,200 lb. of cargo capacity and up to 1,150 cubic feet of cargo volume. In this high-cargo version, the aircraft can comfortably accommodate 50 passengers at 32-inch seat pitch. The combi Q400 NextGen turboprop's "Class C" cargo compartments are designed to meet the industry's latest regulations.

EMBRAER NEWS: Continued from page 5

Embraer and Trans States sign deal for up to 100 E175-E2s

Embraer announced at the 2014 edition of the Farnborough International Airshow, that it has received an order for 50 E175-E2 jets from Trans States Holdings, parent company of Trans States Airlines, Compass Airlines and GoJet Airlines. The agreement also includes options for an additional 50 units, taking the total order potential to 100 aircraft. Deliveries are scheduled to begin in June 2020. The order, which is valued at approximately \$2.4bn at list prices, is subject to certain conditions. It will be added to the Company's firm order backlog when these conditions are met and final confirmation of the aircraft is received from Trans States.



Trans States ordered 50 E175-E2s at Farnborough Embraer

Fuji Dream Airlines, Royal Air Maroc and Azerbaijan Airlines order Embraer jets

Japan's Fuji Dream Airlines signed a firm order of three E175s with options for an additional three aircraft of the same model. This brings the total potential order to six E175s. This order was already included in Embraer's 2014 second quarter backlog as an "undisclosed" customer.

Embraer signed a firm order for two additional E190 jets with Azerbaijan Airlines, the national carrier of Azerbaijan. The aircraft will be deployed on the carrier's international network from Baku's Heydar Aliyev International Airport. This order was already included in Embraer's 2014 second quarter backlog as an "undisclosed" customer. With this order, now AZAL will operate six E190.

Royal Air Maroc decided to introduce the E190 as part of a fleet upgrade to open new routes and to increase the number of short and medium-haul frequencies from its Casablanca International Airport hub in Morocco. The airline signed a lease agreement for four E-Jets with Aldus Aviation, the Irish specialist E-Jet lessor. The first E190 is expected to be delivered during the second semester of 2014.

will be newly added to Lufthansa Technik's international overhaul network, in which C-checks for SAS' fleet of Airbus A330/340 aircraft are already carried out by Lufthansa Technik Malta. Checks of the Boeing 737NG and Airbus A320 aircraft will be performed primarily by Shannon Aerospace, Lufthansa Technik Group's Irish overhaul operation, and by Lufthansa Technik Sofia.

GE Aviation, Hamble prepares for production start-up of the Airbus A350-1000's wing fixed trailing edge package

GE Aviation, Hamble – the aerostructures business of GE Aviation – is readying its production start-up for the Airbus A350-1000 jetliner's wing fixed trailing edge package, comprising more than 3,000 deliverable components that incorporate structural composite panels, complex machined parts and assemblies. The A350 XWB wing fixed trailing edge package is the largest design and manufacture contract awarded in GE Aviation, Hamble's 78-year history. GE Aviation, Hamble has full responsibility for the design and build of the fixed trailing edge package on all variants, beginning with the A350-900 version – for which deliveries have been underway since 2011.

GKN Aerospace wins contract for Bombardier Global 7000 and Global 8000 rudder and elevator

GKN Aerospace was selected by Bombardier Aerospace, Belfast to design, develop and supply the composite integrated rudder and elevator for the new Global 7000 and Global 8000 ultra long-range business jets. The multi-million pound contract adds to already significant GKN Aerospace work packages on these aircraft. These composite structures will be developed and manufactured at the company's Cowes facility on the Isle of Wight, UK. First deliveries to Bombardier in Belfast will take place in 2014 and will continue through to 2026.

Auxiliary fuel tanks for Bombardier Q400

Marshall Aerospace and Defence Group and Bombardier Aerospace are developing an External Auxiliary Fuel System solution for the Bombardier Q400 turboprop aircraft. The solution, which will be available as an official Bombardier option, will provide up to an additional 10,000lb of fuel in two external pannier tanks allowing the aircraft to fulfil a whole range of missions requiring additional range and endurance, allowing this turboprop platform to be able to sustain operations of up to 12 hours. Marshall is responsible for the design, development,

Rolls-Royce signs TotalCare deal with United Airlines

Rolls-Royce signed a contract with United Airlines to extend TotalCare service support for the lifetime of RB211-535 engines operated by United on Boeing 757 aircraft. The innovative agreement incorporates ideas from Rolls-Royce TotalCare Flex – a concept currently in development that focuses on the most effective management of mature engines.



A United Boeing 757 with RB211-535 engines

airteamimages

Boeing introduces new method for building 777 fuselages

Boeing is in the final phases of testing and production readiness of a new method for building 777 fuselages as part of its ongoing technology investment strategy. Known as the Fuselage Automated Upright Build, or FAUB, this Advanced Manufacturing technology improves workplace safety and increases product quality. This technology has been in development by Boeing since 2012. With this new technology, fuselage sections will be built using automated, guided robots that will fasten the panels of the fuselage together, drilling and filling the more than approximately 60,000 fasteners that are today installed by hand. FAUB offers numerous benefits including an improvement in employee safety. The nature of the drilling and filling work makes it ideal for an automated solution. More than half of all injuries on the 777 program have occurred during the phase of production that is being automated. In addition, the automated system is expected to reduce build times and improve first-time quality of the build process. The 777 program has already begun testing FAUB at a facility in Anacortes, Wash. Production readiness preparations are underway and the system will be installed in Everett in a new portion of the main factory that is under construction now. The technology is expected to be implemented in the next few years. The robotic system, designed for Boeing by KUKA Systems, is the latest in a series of strategic Advanced Manufacturing moves on the 777 program, which have already included new systems for painting wings and other drilling operations.

manufacture and test of the auxiliary fuel system. Marshall has pioneered innovative fuel systems and tanks for the Boeing P8 and the Airbus A318E as well as special mission modifications and integrations.

SAS becomes launching customer for HelioJet

Scandinavian Airlines System (SAS) and Lufthansa Technik have signed a contract for the delivery of HelioJet, making SAS the launching customer for the new LED cabin lighting system. HelioJet is part of a comprehensive cabin modification program for seven Airbus A330/ A340 aircraft which SAS is executing over the next months. HelioJet has been designed and developed in a co-operation between the German glass and lighting specialist SCHOTT AG and Lufthansa Technik. It has the advantages of LED technology without the color changes that normally afflict ageing LEDs.

FL Technics to support Garuda Indonesia at Gatwick Airport

FL Technics, a global provider of tailor-made aircraft maintenance, repair and overhaul services, signed a three-year long Line Maintenance Agreement with Garuda Indonesia. Under the contract, engineers from FL Technics Storm, part of FL Technics, shall support the carrier's Boeing 777 aircraft with a comprehensive set of services, including daily and transit checks, defect rectification, AOG support and other line maintenance works. The support will be provided four times per week at one of the FL Technics line stations located at London Gatwick Airport (LGW).

Microturbo assumes responsibility for bizjet development APU programs

Microturbo and Pratt & Whitney AeroPower, reported that Microturbo will assume full responsibility for the design, production, prod-

uct support and service of the APS2[800] and APS500[D] APU programs for Bombardier and Dassault Aviation. The companies will also extend their existing relationship to allow collaboration on future business jet and regional APU programs. In such cases, Microturbo would lead on opportunities in the business jet APU segment and Pratt & Whitney AeroPower would lead on opportunities in the regional APU segment. The collaboration was initiated in 2011 to develop new-generation electrical and bleed auxiliary power units for the business jet. The APS2[800] APU is designed for Bombardier's Global 7000 and 8000 aircraft. The APS 500[D] is the APU for Dassault's Aviation Falcon 5X.

AFI KLM E&M supports Virgin Atlantic deployment of Boeing 787 fleet

Virgin Atlantic decided to entrust component support services to AFI KLM E&M for its new fleet of Dreamliners which begin entry into service later this year. The contract strengthens an existing relationship between the two partners and covers component and APU maintenance, along with pool access and the supply of a Main Base Kit holding in London for the Boeing 787-9s the UK airline has on order.

Parker Aerospace to support Rolls-Royce on Trent 1000 Package C and Trent 1000 -TEN engines

Parker Aerospace was chosen by Rolls-Royce to provide high-temperature fuel hoses and lifetime support on its Trent 1000 -TEN and Trent 1000 package C engines. The Rolls-Royce Trent 1000 C and Trent 1000 -TEN

engines are being developed for the Boeing 787 Dreamliner aircraft. Product design, manufacture, and support will be completed by Parker's Stratoflex Products Division in Fort Worth, Texas. The bill of material covers high-temperature hoses that channel fuel to the engine. As part of the partnership, Parker will provide all-inclusive customer service and support on its components for the life of the engines. This approach is a continuing tradition for Parker on Rolls-Royce TotalCare programs and helps provide optimized, predictable cost

over the long term. The first Parker-supplied Trent 1000 -TEN components are scheduled for delivery to Rolls-Royce in late 2014.

Air Serbia signs five year power-by-the-hour contract with AJW Aviation

Air Serbia, the national airline of Serbia, signed a five year power-by-the-hour contract with AJW Aviation, the integrated complete aircraft support specialist. The

Aerostar of Romania installs Split Scimitar Winglets on TUIFly Nordic Boeing 737-800s

Aerostar S.A. became one of the first independent European MRO organisations to install Split Scimitar Winglets on Boeing 737-800s at its Bacau facility. The installations were carried out on two aircraft belonging to TUIFly Nordic of Sweden – another new customer for Aerostar's growing commercial aircraft maintenance, repair and overhaul (MRO) business. The first aircraft, a Boeing 737-8K5 (WL), bearing registration SE-RFU, arrived at Bacau in early May for a Base Maintenance Check. At the end of the check, the aircraft – which had already had its wings reinforced ready for the installation – was fitted with the new Split Scimitar Winglets. It was followed by the second aircraft, a Boeing 737-86N (WL), bearing registration SE-RFV, that was subject to a Base Maintenance Check along with the embodiment of the complete Split Scimitar Winglet installation; provisioning (wing structure reinforcement) and installation of the upgraded winglets. The complete installation was carried out in six days and had no impact on the maintenance check downtime.



Aerostar installed Split Scimitar Winglets on a TUIFly Nordic Boeing 737-800 (above) Aerostar

TWO NEW DEALS FOR DOWTY PROPELLERS

Dowty Propellers is awarded a multi-year contract to support SpiceJet's fleet of Bombardier Q400 regional airliners

India's SpiceJet contracted with Dowty Propellers to provide a complete support package for propeller systems on the airline's fleet of 15 Bombardier Q400 NextGen regional aircraft, including repairs, overhaul, technical assistance, the availability of rotatable spares and on-site support. Backed by the full capabilities of Dowty Propellers as the type certificate holder for the Bombardier Q400 NextGen turboprop's propeller system, this eight-year contract represents the culmination of a joint process to develop a unique, tailored system that comprehensively considers the airline's operations.

Dowty Propellers signs a letter of intent with XAC to provide propeller systems for the MA700 regional aircraft

China's AVIC Aircraft Xi'An Aircraft Company (XAC) and Dowty Propellers signed a letter of intent to provide propeller systems for the new MA700 aircraft. The propeller to be provided by Dowty Propellers

builds on more than 75 years of experience in propeller design, manufacture and support, and incorporates new blade aerodynamic designs, along with a highly-reliable and proven propeller system. The propeller will allow the aircraft to deliver optimal levels of endurance and fuel efficiency, while achieving a low-noise environment for the cabin, and competitive life-cycle costs. As an all-new generation of turboprop aircraft, the MA700's range of 800 km. positions it in the medium capacity sector of regional air transport, with the capability of operating in high altitude, high temperature locations.



Dowty Propellers on a Bombardier Q400 jet Bombardier

contract will cover the supply of spare parts for Air Serbia's seven A319-100 and two A320-200 aircraft.

Republic Airways expands MRO agreement with GE

Republic Airways expanded its OnPoint solution agreement for engine maintenance, repair and overhaul to its current fleet and added 101 CF34-8Es that power an additional 47 EMBRAER 175 aircraft. The expanded agreement is valued at \$500m over the life of the contract.

Evergreen Aviation Technologies named CF6 TRUEngine Authorized MRO

In its continued relationship with GE, Evergreen Aviation Technologies (EGAT) was named an independent TRUEngine authorized maintenance, repair and overhaul (MRO) provider for GE CF6 engines, demonstrating a further commitment to GE-quality engine maintenance. Earlier this year, GE and EGAT announced formation of GE Evergreen Engine Services, a new joint venture company specializing in overhaul of the GENx. GE Evergreen Engine Services will be equipped to perform limited work on the GENx in 2015 with full overhaul capability to follow in 2019.

SriLankan Airlines selects GE's OnPoint Solution agreement for CFM56-5B engines

SriLankan Airlines and GE Aviation signed a contract for a five-year OnPoint solution agreement for the maintenance, repair and overhaul of the CFM56-5B engines that power its Airbus A320 aircraft.

China Eastern signs OnPoint Solution agreement with GE

GE Aviation and China Eastern Airlines reached a 15-year OnPointSM solution agreement for the maintenance, repair and overhaul of the airline's GE90-115B engines that power its 20 Boeing 777-300ER aircraft. The aircraft order was announced in April 2012. The OnPoint solution agreement is valued at more than \$350m over the life of the agreement.

FIRTH RIXSON NEWS FROM FARNBOROUGH

Firth Rixson and Snecma sign LEAP engine contract

Firth Rixson and Safran's leading aero engine company, Snecma, have signed a critical supplier contract worth over an estimated \$200m initially. The long term agreement secures the supply of Firth Rixson's closed die forged and seamless ring rotating components for the CFM International LEAP-1A, LEAP-1B and LEAP-1C engine programs, from 2014 to 2023. Such LEAP engine programs will power leading next generation aircraft from the Airbus A320neo family and the Boeing 737 MAX family, to the Comac C919.

\$1bn aero engine and landing gear agreement signed between Firth Rixson and United Technologies

Firth Rixson signed a 10-year agreement valued at more than \$1bn with United Technologies Corporation to supply engine and system components for UTC Propulsion & Aerospace Systems' businesses Pratt & Whitney and UTC Aerospace Systems. As UTC ramps up production of its commercial and military aircraft systems and engines, Firth Rixson will provide valuable parts for UTC's legacy and next generation programs, including Pratt & Whitney's PurePower engine family, and UTC Aerospace Systems Boeing 787 and Airbus A320 programs. This reflects Firth Rixson's advancements in next generation aircraft manufacturing. The new business will considerably benefit eleven of Firth Rixson's twelve operating facilities worldwide, spanning North America, the UK, and China.



Firth Rixson celebrated a new 10-year contract worth more than \$1bn with UTC
Firth Rixson

China Cargo signs GE90 OnPoint Solution agreement

China Cargo Airlines signed with GE Aviation for a 12-year OnPoint solution agreement for the maintenance, repair and overhaul of its GE90-110B engines that power six Boeing 777 Freighters.

Jet Airways Extends OnPoint Solution agreement with GE for GE90 - 115B engines

Jet Airways, India's premier international airline, extended its OnPoint solution agreement with GE Aviation for an additional five years on the fleet of GE90 engines that power the airline's Boeing 777-300ER. The extension, valued at more than \$200m, ensures GE will provide the maintenance, repair and overhaul of 22 GE90 engines through 2022. Also, Jet Airways

has signed an agreement with GE for a thrust bump on its entire GE90 fleet of 22 engines. This provides Jet Airways with the flexibility to operate high payloads even when flying out on short runways under severely hot operating conditions experienced in the summer months in many parts of Asia and the Middle East.

Qantas extends OnPoint solution agreement with GE for CF6-80E1 engine fleet

Qantas Airways extended its OnPoint solution agreement with GE Aviation for an additional seven years on the fleet of CF6-80E1 engines that power the airline's Airbus A330-200 and A330-300 aircraft. The extension, valued at \$340m, ensures GE will provide the maintenance, repair and overhaul of 65 CF6-80E1 engines through 2025.

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SkyWest selects UTC Aerospace Systems for E-Jet maintenance, repair and overhaul services

UTC Aerospace Systems entered into a long-term agreement with SkyWest, to provide maintenance, repair and overhaul (MRO) services for their fleet of more than 100 ERJ175 aircraft. The 14-year agreement covers actuation systems, electric systems, air management systems, fire protection, sensors and evacuation. The MRO work will be performed at various UTC Aerospace Systems facilities across the United States.

Aircelle to supply nacelles for the newly-launched Airbus A330neo twin-engine jetliner

A major new program was awarded to Aircelle (Safran), with the company's selection to supply nacelles for Airbus' latest A330 version – the A330neo (new engine option) jetliner. These nacelles are to equip the A330neo's two large Rolls-Royce Trent 7000 turbofan powerplants, and will use Aircelle's experience gained in developing and supplying nacelles for the Airbus A380 jetliner's high-thrust engines – which are in a similar size category. As with the A380, Aircelle will apply its expertise in the use of composite materials, acoustic treatment and system architecture for the A330neo nacelles. Production activity will involve all of Aircelle's primary industrial sites: Le Havre, France; Burnley, England; and Casablanca, Morocco; with painting, assembly and delivery performed from its Colomiers, France facility located near Airbus' A330 final assembly line at Toulouse Blagnac Airport.

Middle River Aircraft Systems and Lufthansa Technik sign Thrust Reverser MRO partnership agreement

Middle River Aircraft Systems, a wholly owned subsidiary of GE Aviation, signed a maintenance, repair and overhaul (MRO) agreement with Lufthansa Technik under which LHT will be MRAS's authorized service provider for the thrust reverser on the GENx-2B engines that power the Boeing 747-8 aircraft. This long-term partnership will cover the 24/7 product support, asset leasing/exchange and maintenance service offerings to worldwide 747-8 operators. Lufthansa is currently the largest operator of the 747-8 aircraft with 19 total aircraft ordered. Boeing offers the 747-8 in both freighter and passenger aircraft configurations all powered by the GENx-2B engine. Under the agreement, LHT will provide various GENx-2B nacelle MRO services, including but not limited to warranty repairs and modifications on behalf of MRAS. Initially LHT will set up repair capability at its Hamburg, Germany and

Alcoa signs 10-year, \$1.1bn agreement with Pratt & Whitney

Alcoa announced a 10-year, \$1.1bn agreement with Pratt & Whitney for state-of-the-art jet engine components. Under the deal signed at the Farnborough Air Show, Alcoa will supply key parts for Pratt & Whitney's engines, including the forging for the first ever aluminum fan blade for jet engines. The forging was developed for Pratt & Whitney's PurePower engines using an advanced aluminum alloy and a proprietary manufacturing process. Also for the PurePower engines, Alcoa is developing a fan blade forging using its most advanced aluminum-lithium alloy. Under the \$1.1bn deal, Alcoa will supply components for Pratt & Whitney's PurePower PW1000G, V2500, GP7000 and several other regional jet and military engines.

Oman Air signs heavy maintenance agreement with JorAMCo

Oman Air signed a new deal with JorAMCo to provide the Omani national carrier with base maintenance services for two Embraer 175 and three Airbus A330 aircraft in its fleet. The maintenance checks are planned to take place between May and November this year. The move continues a collaborative effort between the two companies, with JorAMCo successfully accomplishing similar checks to two additional Oman Air Embraers last year.



Oman Air sealed a new MRO services deal with JorAMCo JorAMCo

Shenzhen, China facilities. With more than three decades of experience within the area of advanced composites and bonded material repair technology, Lufthansa Technik has the proven experience to support customers through the entire life cycle of the nacelle – from the entry into service up to major and complex repairs. LHT will provide and maintain an adequate pool of spares to offer customers exchanges and or leases while their thrust reverser is being repaired. These serviceable spare thrust reversers will be available to worldwide customers on a 24/7 support basis.

UTC Aerospace Systems to provide new wheels and carbon brakes for A320neo aircraft family

UTC Aerospace Systems was selected by Airbus to supply new wheels and carbon brakes for A320neo family aircraft, through its Landing Systems facility in Troy, Ohio. The equipment is scheduled to enter into service in 2015 on the current A320 family of aircraft. The new wheels and brakes are designed as a product improvement and in parallel to today's existing design and will be introduced with compatibility across the current A318/A319/A320 and A319/A320neo platforms. The new equipment includes a larger carbon sink mass and the next genera-

tion oxidation protection system. The brake and wheel structures of the new equipment are optimized for weight and performance. The brakes use proprietary DURACARB(R) carbon heat sink material which allows UTC Aerospace to provide significant cost savings for operators through improved brake life.

Avio-Diepen signs distribution agreement with Cinch

Cinch and Avio-Diepen recently signed a distribution agreement authorizing Avio-Diepen to distribute Cinch aerospace products worldwide. Cinch has been supplying high quality, high performance connectors and cables to the aerospace market for over 40 years. Recent acquisitions have strengthened Cinch's capabilities in the field of (expanded beam) fiber optics. Cinch's product engineering and development activities employ cutting edge technologies for design and modeling.

Ameco to upgrade 4-bay hangar for aircraft overhaul

On July 1st, Ameco Beijing started installing a tail dock at its present 4-bay hangar to go with the growth of aircraft overhaul workload. It is the fourth dock installed in this hangar, with an investment of more than

US\$1m. The installation is due to finish at the end of September. The new dock design takes the need of new aircraft types into consideration, such as Boeing 787 and 747-8. Ameco's 4-bay hangar was put into use in 1996, and can host four Boeing 747s for overhaul at the same time. Its docks and related equipment have been upgraded along with the workload growth and maintenance capability. The airframe workload shows a strong growing trend this year at Ameco, with customers from North America, Europe, Middle East, and Asia for overhaul and various modifications. In June, Ameco signed contracts with ACT Airlines, Air Atlanta Icelandic for Boeing 747 C-check and KLM Royal Dutch Airlines for Boeing 747 D-check. In addition to the 4-bay hangar, Ameco also has a Boeing 747 painting and overhaul hangar, an A380 hangar for maintenance and light check and a hangar dedicated for VIP and business jet completion.

Boeing selects supplier for 737 MAX Full-Flight Simulator

Boeing selected TRU Simulation + Training as its supplier for state-of-the-art full-flight training suites for the 737 MAX. The initial suite will include a full-flight simulator,

FINANCIAL NEWS

BOC Aviation increases fixed rate senior unsecured notes issuance to A\$200m

BOC Aviation priced A\$50m of 5.5-year fixed rate senior unsecured notes due 2020 (the "Notes"). The Notes represent an increase over the Company's A\$150m notes issuance priced on 14 July 2014 resulting in a final transaction size of A\$200m. The transaction was arranged by Westpac Banking Corporation and issued off BOC Aviation's US\$5bn Euro Medium Term Note Programme. The additional A\$50m Notes will carry the same coupon rate of 5.375% per annum and the same maturity date of January 24th, 2020 and will close on July 24th, 2014, subject to satisfaction of customary closing conditions.

a flat-panel training device and 10 desktop trainers which are anticipated to be ready for training in 2017 for customers new to both the Next-Generation 737 and 737 MAX. Current Next-Generation 737 customers who will begin operating the MAX can continue training new pilots on one of 14 Next-Generation 737 full-flight simulators within the Boeing Flight Services training network followed by a short differences training course for the 737 MAX. Pilots already certified on the Next-Generation 737 will not require a simulator course to transition to the 737 MAX.

MILITARY & DEFENSE

Rolls-Royce receives US Air Force certification for C-130 Engine Enhancement Package

The US Air Force completed final engineering review and approved the Certification Basis for the Rolls-Royce C-130 Engine Enhancement Package. This action approves the T56 Series 3.5 package for use on USAF C-130 aircraft as the service prepares to introduce the fuel-saving technology into its transport fleet. The

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- Understand what are second tier priorities and can be negotiated
- Learn what other parties want from a deal and why they want it

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C-130 Engine Enhancement Package includes specifications for 7.9% reduction in fuel use. However, fuel savings have been as high as 13% in ground and flight testing on C-130 and P-3 aircraft with the Series 3.5 package. The enhancement package also allows T56 engines to operate at significantly lower turbine temperatures, extending parts life and improving reliability by 22%. The USAF has estimated that incorporating the engine enhancement into its C-130 fleet would save \$2bn, while extending the life of the fleet for decades. The US Congress approved \$15.7m in funding for C-130 engine enhancement in the FY14 budget to begin introduction of the technology into the UvSAF fleet.

Embraer to partner with Saab in joint programme management for Brazil's F-X2 project

Embraer and Saab signed a Memorandum of Understanding to partner in joint programme management for the F-X2 Project, pursuant to the selection of the Gripen NG as Brazil's next generation fighter jet. Under this agreement Embraer will perform a leading role in the overall programme performance as well as undertake an extensive share of work in the production and delivery of both the single and two-seat versions of the state-of-the-art Gripen NG aircraft for the Brazilian Air Force. Embraer will coordinate all development and production activities in Brazil on behalf of Saab and, in addition to its own extensive work packages, will participate in systems development, integration, flight tests, final assembly and deliveries.

OTHER NEWS

The **Commonwealth Center for Advanced Manufacturing (CCAM)** reported that Airbus – the aeronautics leader – joined CCAM's industry, academic and government consortium dedicated to manufacturing breakthroughs and advancements in applied research. CCAM, Airbus and Virginia Governor Terry McAuliffe used the occasion of the Farnborough International Airshow 2014 to announce the new membership during a celebratory signing event.

OIS AeroSpace at Farnborough International AirShow 2014 announced the availability of its next generation simulator development platform for cockpit simulators for fixed and rotary wing aircraft. This allows for integration and testing of real-time avionics hardware as part of the cockpit simulation environment. This specifically permits the creation of new cockpit simulators. It also permits the testing and integration of diverse avionics from different suppliers that interact with the aircraft cock-

airberlin technik to develop camera-guided parking system for aircraft

airberlin technik is to develop an innovative anti-collision monitoring technology for the manoeuvring of aircraft on the ground in collaboration with WheelTug plc and FTI Engineering Network GmbH. The partners have signed a Letter of Intent related to this as part of the Farnborough International Air Show in London.



airberlin technik is working with WheelTug and FTI to develop a new electric drive airberlin

In future the so-called "Pilot Ground Situation Awareness System" (PGSA) should enable pilots to manoeuvre unaided on the ground using cameras on the fuselage and vertical stabiliser as well as sensors placed on the wing tips. Until now, pilots have relied on either visual signals from the ground crew or push-back vehicles to move aircraft to and from the stand. The PGSA is being developed as a retrofit and should primarily increase the efficiency of ground operations.

The development, design and certification of the PGSA will be done by airberlin technik and FTI, a specialist in camera systems. WheelTug will provide the new system to its customers along with an electronic nose wheel drive system, which is also currently under development. Last year, airberlin was one of the first airlines in the world to sign a Letter of Intent with WheelTug for this new type of fuel-efficient electric drive.

Pratt & Whitney launches Geared Turbofan PW1000G engine MRO overhaul (MRO) network

Pratt & Whitney launched its Geared Turbofan PW1000G engine maintenance, repair and overhaul (MRO) network at the Farnborough Airshow, providing customer solutions that result in engines with longer time on-wing and lower fuel burn advantages. Pratt & Whitney will build on its existing comprehensive MRO network to locate facilities and customer service representatives around the world to provide rapid service for Geared Turbofan engine operators. To date, five engine overhaul centers have been initially selected to maintain the PW1000G fleet, strategically located in Asia, Europe and North America. All customer service representatives and facilities will be tooled, trained and ready to ensure fast, quality service. Additional providers may be added over time as appropriate.



On wing inspection of a test Pratt & Whitney GTF PW1000G engine P&W

pit display system. It allows these units to be tested in a real-time simulation environment and prior to its integration and installation in the aircraft, resulting in significant savings.

Spirit AeroSystems announced a name change for its aftermarket business from **Spirit Aftermarket Customer Support to Global Customer Support & Services (GCS&S)** to reflect the organization's customer focus. Spirit AeroSystems Global Customer Support & Services (GCS&S) offers a diverse line of products and services for aerospace design, build, support, and Spares/MRO needs

Bruce Aerospace reported the selection by **Swiss International Airlines (Swiss)** as a new customer for its popular **XLume** LED Lighting product line for its fleet of A320/A321, A330

and A340 aircraft. First deliveries will start in September 2014. The product line offers airlines a drop-in replacement for the OEM supplied fluorescent cabin lighting fixtures which enhance the cabin with the environmentally friendly and cost effective Bruce Aerospace LED fixtures. Certification will be achieved by STC, which covers the fitment of new Sidewall and Ceiling Lights for the A320 & A321 fleet. For the A330/A340's Bruce will supply a fully programmable Mood Lighting System.

Rockwell Collins was selected to provide the **Flight Control Module (FCM)** for the **Boeing 777X Integrated Flight Control Electronics (IFCE)** fly-by-wire (FBW) system through a competitive procurement bid led by **BAE Systems**, the prime supplier of the IFCE cabinet system. The FCM technology

builds upon Rockwell Collins' leading-edge flight control electronics found on multiple FBW-equipped air transport aircraft under development. It delivers high-integrity FBW computing functionality that supports the 777X's new wing with load alleviation, and its high lift and folding wing tips.

SpiceJet Airlines selected **GE's Flight Efficiency Services (FES)** to support its fleet of 52 Boeing 737 and Bombardier Q400 aircraft. GE will provide flight data analytics and fuel management to optimize the airline's operational efficiency with the goal of substantially reducing fuel expenses for the airline.

Bombardier appointed **Flight Training Alliance (FTA)**, a newly formed joint venture between **CAE** and **Lufthansa Flight Training (LFT)**, as its exclusive Authorized Training Provider for CSeries aircraft pilot and cabin crew training worldwide. Bombardier also announced Lufthansa Technical Training (LTT) as its exclusive Authorized Training Provider for maintenance training on the all-new CSeries aircraft worldwide. Flight Training Alliance will support Bombardier's CSeries aircraft entry-into-service by providing comprehensive pilot and cabin crew training to CSeries aircraft customers and operators worldwide. It will leverage and deploy training programs in the CAE and LFT networks and will take advantage of the global networks and instructional delivery from both partners to support customer requirements.

Parker Aerospace, a business segment of Parker Hannifin Corporation, the global leader in motion and control technologies,

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Business Aircraft Europe Expo
Biggin Hill Airport, London, UK, 10-11 Sept, 2014. (Event brochure)

ISTAT Europe
Hilton Istanbul, Istanbul, Turkey, 21-23 Sept, 2014. (Event brochure)

Aircraft Lifecycle - New Perspectives
Hotel 10, Montreal, Canada, 30 Sept-1 Oct, 2014. (Event brochure)

MRO Europe
IFEMA, Madrid, Spain, 7-9 Oct, 2014. (Event brochure)

**Engine Leasing & Asset Management Seminar
Aircraft Finance Seminar**
Holiday Inn Kensington Forum, London, UK, 29-30 Oct, 2014. (Event brochure)

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and its joint ventures with **AVIC FACRI** and **AVIC Jincheng**, received business licenses from the local Nanjing and Xi'an governments to operate the joint ventures. Parker, through the joint ventures, is developing and supporting the primary fly-by-wire flight control actuation, fuel, inerting, and hydraulic systems for the C919 family of aircraft being developed by COMAC.

INDUSTRY PEOPLE

- STS Component Solutions, a division of STS Aviation Group, opened a new support office in Turkey and hired **Omur Basol**, a former purchasing executive for several Turkish airlines and MRO's, to spearhead its marketing and sales activities.
- SR Technics appointed **Christina Johansson** as its new chief financial officer, effective August 1st, 2014. Reporting directly to André Wall, CEO of SR Technics, Johansson will join SR Technics' Leadership Team. She takes over from **Angelo Quabba**, who decided to leave the company after seven years.
- Seasoned aviation professional **David A. Ford** was named president of Precision Aviation Services (PAS) of Peachtree City, GA, a Precision Aviation Group (PAG) company as of June 12th, 2014. Ford, who has held leadership roles at companies specializing in rotorcraft and gas turbines, replaces **Adrienne Robinson**, who has been serving as PAS president in addition to her role in business development at PAG.
- CTS Engines, a leading independent jet engine MRO and portfolio company of Palm Beach Capital Partners, hired **Peter J. Iannone** as chief financial officer, a key addition to further develop the growing company. Iannone has held a numerous executive management positions in several industries and comes with a wealth of finance experience, including mergers and acquisitions, entrepreneurship, and publicly-traded companies.



Adrienne Robinson
PAS

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Commercial Jet Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
A319-112	Doric	CFM56-5B6/3	3589	2008	Mar 2015	Sale / Lease	Maurick Groeneveld	maurick.groeneveld@doric.com	+49.69.24755942
A319-112	Doric	CFM56-5B6/3	3818	2009	Mar 2015	Sale / Lease	Maurick Groeneveld	maurick.groeneveld@doric.com	+49.69.24755942
A319-133	Amentum Capital	V2527M-A5	3705	2008	Nov 2014	Lease	Noel Healy	marketing@amentum-capital.com	+353 1 639 8111
A320-200	ORIX Aviation	CFM56-5A1	378	1993	Q1/2015	Sale	Paul O'Dwyer	paul.o'dwyer@orix.ie	+353 863 822 960
A320-200	ORIX Aviation	CFM56-5B6/3	3831	2009	Q2/2015	Lease	Paul O'Dwyer	paul.o'dwyer@orix.ie	+353 863 822 960
A330-200	Amentum Capital	PW4168A	970	2008	Q1/2015	Lease	Noel Healy	marketing@amentum-capital.com	+353 1 639 8111
B737-300	AerSale		23440	1986	Now	Sale / Lease	Bill Kmiolek	Bill.Kmiolek@aersale.com	+1 676 379 5042
B737-300	AerSale		23441	1986	Now	Sale / Lease	Bill Kmiolek	Bill.Kmiolek@aersale.com	+1 676 379 5042
B737-300	World Star Aviation Services	CFM56-3C1	28738	1998	Now	Sale / Lease	Sean O Connor	Soconnor@worldstaraviation.com	+1 415-956-9456
B737-300	World Star Aviation Services	CFM56-3C1	28872	1998	Jul 2014	Sale / Lease	Sean O Connor	Soconnor@worldstaraviation.com	+1 415-956-9456
B737-300	World Star Aviation Services	CFM56-3B2	24208	1998	Now	Sale / Lease	Sean O Connor	Soconnor@worldstaraviation.com	+1 415-956-9456
B737-300	World Star Aviation Services	CFM56-3C1	28573	1998	Now	Sale / Lease	Sean O Connor	Soconnor@worldstaraviation.com	+1 415-956-9456
B737-300	Phoenix Aer Capital	CFM56-3	24532		Now	Sale	Bob Gallagher	r.gallagher@aircraftsystemsgroup.com	+1 727-376-0292
B737-300	Phoenix Aer Capital	CFM56-3	24666		Now	Sale	Bob Gallagher	r.gallagher@aircraftsystemsgroup.com	+1 727-376-0292
B737-300F	ORIX Aviation	CFM56-3B2	24711	1990	Q1/2015	Sale / Lease	Paul O'Dwyer	paul.o'dwyer@orix.ie	+353 863 822 960
B737-400	World Star Aviation Services	CFM56-3C1	24706	1991	Now	Sale / Lease	Sean O Connor	Soconnor@worldstaraviation.com	+1 415-956-9456
B737-400	World Star Aviation Services	CFM56-3C1	26290	1993	Now	Sale / Lease	Sean O Connor	Soconnor@worldstaraviation.com	+1 415-956-9456
B737-400	AerSale	CFM56-3C1	25417	1991	Now	Sale	Craig Wright	craig.wright@aersale.com	+1 (305) 764 3238
B737-400	AerSale	CFM56-3C1	25313	1991	Now	Sale / Lease	Bill Kmiolek	Bill.Kmiolek@aersale.com	+1 676 379 5042
B737-400	AerSale	CFM56-3C1	25314	1991	Now	Sale / Lease	Shane O'Connell	Shane.OConnell@aersale.com	+353 87 063 8243
B737-400	AerSale	CFM56-3C1	27149	1993	Now	Sale / Lease	Craig Wright	craig.wright@aersale.com	+1 (305) 764 3238
B737-400	Safair Operations	Combi	26961		Now ACMI/Wet lease/Sale		C. Schoonderwoerd	corneliss@safair.co.za	+27 11 928 0000
B737-400	Safair Operations	Pax			Now 2013 ACMI/Wet lease		C. Schoonderwoerd	corneliss@safair.co.za	+27 11 928 0000
B737-500	AerSale	CFM56-3C1	27424	1996	Now	Sale / Lease	Craig Wright	craig.wright@aersale.com	+1 (305) 764 3238
B737-500	World Star Aviation Services	CFM56-3B1	26297	1994	Now	Sale / Lease	Sean O Connor	Soconnor@worldstaraviation.com	+1 415-956-9456
B737-800	ORIX Aviation	CFM56-7B24	34181	2006	Q1/2015	Lease	Paul O'Dwyer	paul.o'dwyer@orix.ie	+353 863 822 960
B737-800	ORIX Aviation	CFM56-7B26	35072	2007	Q2/2015	Lease	Paul O'Dwyer	paul.o'dwyer@orix.ie	+353 863 822 960
B747-400	GA Telesis	PW4056	28754	1998	Now	Sale / Lease	Stefanie Jung	sjung@gatelesis.com	+1 954-958-1321
B747-400	AerSale	CF6-80C2B1F	26342	1992	Now	Sale / Lease	Bill Kmiolek	Bill.Kmiolek@aersale.com	+1 676 379 5042
B747-400ERF	Amentum Capital	CF6-80C2B5F	37303	2009	Jul 2014	Sale / Lease	Noel Healy	marketing@amentum-capital.com	+353 1 639 8111
B757-200	World Star Aviation Services	RB211-535-E4	24544	1990	Now	Sale / Lease	Sean O Connor	Soconnor@worldstaraviation.com	+1 415-956-9456
B757-200	MBA Aircraft Solutions	RB211-535E4B	24594	1990	Now	Sale / Lease	Jacob Agnew	jagnew@mbaas.aero	+1 703.276.3202
B757-200	MBA Aircraft Solutions	RB211-535E4B	24526	1990	Now	Sale / Lease	Jacob Agnew	jagnew@mbaas.aero	+1 703.276.3202
B757-200	GA Telesis	RB211-535E4	24491	1990	Now	Sale / Lease	Stefanie Jung	sjung@gatelesis.com	+1 954-958-1321
B757-200	GA Telesis	RB211-535E4	24577	1990	Now	Sale / Lease	Stefanie Jung	sjung@gatelesis.com	+1 954-958-1321
B757-223	Jet Midwest Inc.	RB211-535E4			Now	Sale / Lease	Kevin Lee / Cathy Liu	cathy.liu@jetmidwest.com	+1 310 652 0296
B757-200PCF	AerSale	535E4-37/B	23767	1987	Oct 2014	Sale / Lease	Craig Wright	craig.wright@aersale.com	+1 (305) 764 3238
B767-200ER	GA Telesis	CF6-80A	22329	1987	Now	Sale / Lease	Stefanie Jung	sjung@gatelesis.com	+1 954-958-1321
B767-200ER	GA Telesis	CF6-80A	22324	1986	Now	Sale / Lease	Stefanie Jung	sjung@gatelesis.com	+1 954-958-1321
B767-200ER	GA Telesis	CF6-80A	22328	1986	Now	Sale / Lease	Stefanie Jung	sjung@gatelesis.com	+1 954-958-1321
B767-222	Jet Asia Airways Co. Ltd.	JT9D-7R4D	21868		Now	ACMI, Wet L.	Kevin Lee	klee@flyjetasia.com	+1 310 944 0327
B767-246	Jet Asia Airways Co. Ltd.	JT9D-7R4D	23214		Now	ACMI, Wet L.	Kevin Lee	klee@flyjetasia.com	+1 310 944 0327
B767-300ER	ORIX Aviation	PW4060	25285		Q1/2015	Lease	Paul O'Dwyer	paul.o'dwyer@orix.ie	+353 863 822 960
DC10-30F	Bristol Associates	CF6-50C2	47925	1974	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
DC10-30F	Bristol Associates	CF6-50C2	47929	1975	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
L100-30	Safair Operations	501-D22			Now - Wet Lease / ACMI		C. Schoonderwoerd	corneliss@safair.co.za	+27 11 928 0000
MD90-30	AerSale	V2528-D5	53496	1998	Now	Sale / Lease	Bill Kmiolek	Bill.Kmiolek@aersale.com	+1 676 379 5042

Regional Jet / Turboprop Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
CRJ702ER	Amentum Capital	CF34-8	10217	2005	Oct 2014	Lease	Noel Healy	marketing@amentum-capital.com	+353 1 639 8111
EMB-120QC	Jet Midwest Inc.	PW118	120264	1992	Now	Sale / Lease	Kevin Lee / Cathy Liu	cathy.liu@jetmidwest.com	+1 310 652 0296
ERJ-135ER	Bristol Associates		145176	1999	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
ERJ-135ER	Bristol Associates		145186	1999	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
ERJ-135ER	Bristol Associates		145192	1999	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000



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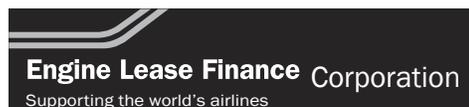
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Regional Jet / Turboprop Aircraft (cont.)

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
ERJ-135LR	Bristol Associates		145332	2000	Now	Sale / Lease	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
ERJ-135LR	Bristol Associates		145334	2000	Now	Sale / Lease	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
ERJ-135LR	Bristol Associates		145323	2000	Now	Sale / Lease	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
ERJ-145ER	GA Telesis		145045	1998	Now	Sale / Lease	Harris Koutounidis	hkoutounidis@gatelesis.com	+1-954-676-3111

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
(2) AE3007A1	Now - Sale / Lease	Engine Lease Finance	Ciaran McGlynn	ciaran.mcglynn@elfc.com	+353 61 291729
(2) AE3007A1	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi / Ray Marquess	ray.marquess@magellangroup.net	+1 (704) 504-9204
CF34 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CF34-8E5	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
(2) CF34-10E5	Now - Lease				
(1) CF34-3B / 3B1	Now - Lease				
(1) CF34-3A	Now - Sale / Lease				
(3) CF34-3B	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(1) CF34-8C5/B1	Now - Sale / Lease	Magellan Aviation Group	Ray Marquess	ray.marquess@magellangroup.net	+1 (704) 504-9204
(1) CF34-3B1	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	dadesaulniers@willislease.com	+1 415 516 4837
(1) CF34-8E5A1	Now - Lease	AeroCentury	Frank Pegueros	frank.pegueros@aerocentury.com	+1 650 340 1888
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) CF6-80C2A5	Now - Sale/Lease/Exch.	Apollo Aviation Group	Erik Castillo	erikc@apollo.aero	+1 (305) 579-2340
(4) CF6-80C2A2	Now - Sale / Lease				
(2) CF6-80C2B4	Now - Sale / Lease				
(1) CF6-80C2B1F	Jun 14 - Sale/Lease/Exch.				
(1) CF6-80C2B1F	Aug 14 - Sale/Lease/Exch.				
(1) CF6-50C2	Now - Sale / Lease	Taking Aviation Forward, LLC	Konrad J Walter	konrad@TakingAviationForward.com	+1 954-445-8127
(1) CF6-50	Now - Sale	Phoenix Aer Capital	Bob Gallagher	r.gallagher@aircraftsystemsgroup.com	+1 727-376-0292
(1) CF6-80C2B4F	Now - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
CF6-50E2 (multiple)	Now - Sale / Lease	Commercial Aircraft Services	Brian Cooper	brian@casl.aero	+1 208-899-1915
(1) CF6-80C2B1F	Now - Sale / Lease	AerSale, Inc.	Matthew White	matthew.white@aersale.com	+353 1475 3005
(2) CF6-80C2B6F	Now - Sale / Lease				
(1) CF6-80C2B7F	Now - Sale / Lease				
(2) CF6-80C2BXF	Now - Sale/Lease/Exch.	TES Aviation Group	Lee Whitehurst	lee.whitehurst@tes-uk.com	+ 44 (0) 7760884250
(1) CF6-80C2B1F	Now - Sale / Lease	Fortress Investment Group	Thomas Garbaccio	Aviation@fortress.com	+1 212-497-2917
(1) CF6-80C2B6F	Now - Sale / Lease				
(1) CF6-80C2B7F	Now - Sale / Lease				
(2) CF6-80C2B1F	Now - Sale / Exchange	AeroTurbine	Elizabeth Peters	epeters@aeroturbine.com	+1 786 925 8517
(1) CF6-80C2D1F	Now - Lease				
(1) CF6-80C2B4	Now - Sale / Lease	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(1) CF6-80C2A2	Now - Sale / Lease				
(1) CF6-80C2B1F	Now - Lease	Engine Lease Finance	Joe Hussar	joseph.hussar@elfc.com	+1 (617)828-3569
CFM56 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CFM56-7B26E (brand new)	End 08/14 Lease	Sumisho Aero Engine Lease	Tony Kondo	tony.kondo@sumisho-engine.com	+31-20-705-4982
(1) CFM56-7B26E (brand new)	End 10/14 Lease				
CFM56-3C1 (OH)	Now - Sale / Lease	TrueAero, LLC	Brent Corrie	bcorrie@trueaero.com	+1 561-310-3242
CFM56-3C1 (SV)	Now - Sale / Lease				
(1) CFM56-7B24	Now - Lease	Engine Lease Finance	Joe Hussar	joseph.hussar@elfc.com	+1 617 828-3569
(1) CFM56-5A3	Now - Lease				
(1) CFM56-5A3	Now - Sale / Lease	World Star Aviation Services	Sean O Connor	Soconnor@worldstaraviation.com	+1 415-956-9456
(1) CFM56-3B1	Now - Sale / Lease				
(1) CFM56-3C1	Now - Sale / Lease				



Commerical Engines (cont.)

CFM56 Engines (cont.)	Sale / Lease	Company	Contact	Email	Phone
(2) CFM56-3C1	Now - Sale / Lease	Royal Aero	Frank Rustmeier	frank@royalaero.com	+49 (0)8025 99360
(1) CFM56-5A3	Now - Sale / Lease				
(2) CFM56-5B4P	Now - Sale / Lease				
(1) CFM56-5C4	Now - Sale / Lease				
(1) CFM56-5C4/P	Now - Sale/Lease/Exch.	AerFin	Auvinash Narayen	Auvinash.narayen@aerfin.com	+44 77 66 384 581
(1) CFM56-3C1	Now - Sale		Mike Visconti	mike@avvireservices.com	+1 305 753-6106
(1) CFM56-3B2	Now - Sale / Lease	Fortress Investment Group	Thomas Garbaccio	Aviation@fortress.com	+1 212-497-2917
(1) CFM56-3C1	Now - Sale / Lease				
(1) CFM56-7B27/3B1F	Now - Sale/Lease/Exch.	AerSale, Inc.	Matthew White	matthew.white@aersale.com	+353 1475 3005
(1) CFM56-3B1	Now - Lease				
(1) CFM56-3C1	Now - Lease				
(3) CFM56-5C4	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504-9204
(4) CFM56-3B1/C1	Now - Sale / Lease		Tom Leimkuhler	tom.leimkuhler@magellangroup.net	+1 (704) 504-9204
(6) CFM56-3C1	Now - Sale/Lease/Exch.	Lufthansa Technik Airmotive Irel.	Alan Phelan	engines@ltai.ie	+353-87-2786738
(1) CFM56-3B2	Now - Sale/Lease/Exch.				
(1) CFM56-5B4/P	Now - Lease	Castlelake	Rich Gauvin	rich.gauvin@castlelake.com	+1 612 851 3022
(1) CFM56-7B	Now - Lease				
(1) CFM56-3B2	Now - Sale / Lease	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(2) CFM56-5B	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@wernerero.com	+1-703-402-7430
(1) CFM56-7B	Now - Sale/Lease/Exch.				
CFM56-3(s)	Now - Sale/Lease/Exch.	SES	Ivan Graydon	marketing@ses.ie	+ 353 61 70 6463
CFM56-5A(s)	Now - Sale/Lease/Exch.				
CFM56-5B(s)	Now - Sale/Lease/Exch.				
CFM56-7B(s)	Now - Sale/Lease/Exch.				
(1) CFM56-7B24 (Non-TI)	Now - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
(1) CFM56-3C1	Now - Lease				
(1) CFM56-5B4/3	Now - Lease				
(1) CFM56-5B4/P	Now - Lease				
(2) CFM56-5C4/P	Now - Lease				
(2) CFM56-7B24/3	Now - Lease				
(4) CFM56-3C1	Now - Sale / Exchange	AeroTurbine	Elizabeth Peters	epeters@aeroturbine.com	+1 786 925 8517
(1) CFM56-5C3/G	Now - Sale / Exchange				
(2) CFM56-5C4	Now - Sale / Exchange				
(3) CFM56-3C1	Now - Lease				
(1) CFM56-5C4	Now - Lease				
(3) CFM56-3C1A	Now - Sale / Lease	Apollo Aviation Group	Erik Castillo	erikk@apollo.aero	+1 (305) 579-2340
(2) CFM56-5A3	Aug 14 - Sale/Lease/Exch.				
(1) CFM56-3B2	Now - Sale/Lease/Exch.				
(3) CFM56-5C3/F	Jun 14 - Sale/Lease/Exch.				
(3) CFM56-3B2	Now - Sale / Lease	ORIX Aviation	Paul O'Dwyer	paul.o'dwyer@orix.ie	+353 863 822 960
(1) CFM56-3B1	Now - Sale/Lease/Exch.	TES Aviation Group	Lee Whitehurst	lee.whitehurst@tes-uk.com	+ 44 (0) 7760884250
(2) CFM56-5A	Now - Sale	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
JT8D Engines					
	Sale / Lease	Company	Contact	Email	Phone
(1) JT8D-217C/219	Now - Sale / Lease	Azure Resources	Jeff Young	jeff@azureres.com	+1-954-249-7935
(7) JT8D-200	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(1) JT8D-219 or -217	Now - Sale / Lease	Jet Midwest	Kevin Lee / Cathy Liu	cathy.liu@jetmidwest.com	+1 310 652 0296
JT9D Engines					
	Sale / Lease	Company	Contact	Email	Phone
(1) JT9D-7R4D overhauled	Now - Sale / Lease	Jet Midwest	Kevin Lee / Cathy Liu	cathy.liu@jetmidwest.com	+1 310 652 0296
(34) JT9D-7R4D	Now - Sale / Lease				
PW Small Engines					
	Sale / Lease	Company	Contact	Email	Phone
(3) 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.				
(1) PW127M	Now - Sale/Lease/Exch.				
(2) PW127F	Now - Sale/Lease/Exch.				
(2) PW124B	Now - Sale/Lease/Exch.				
(1) PW150A	Now - Sale/Lease/Exch.				
(1) PW121	Now - Sale / Lease	Royal Aero	Frank Rustmeier	frank@royalaero.com	+49 (0)8025 99360
(1) PW150A	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
PW121, PW123, PW124B, PW125B,	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504-9204
PW127E/F/M and PW150A			Ray Marquess	ray.marquess@magellangroup.net	+1 (704) 504-9204

Commerical Engines (cont.)

PW Small Engines (cont.)	Sale / Lease	Company	Contact	Email	Phone
PW100s (all models)	Now - Sale / Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
(5) PW150A (also Pooling available)	Now - Lease				
PW2000 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) PW2037	Now - Sale / Lease	Fortress Investment Group	Thomas Garbaccio	Aviation@fortress.com	+1 212-497-2917
(2) PW2040	Now - Sale / Lease				
(2) PW2037M	Now - Sale	Aerolease	Tim Corley	tcorley@aerolease.com	+1 360 8709172
(1) PW2040	Now - Sale / Lease	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(1) PW2037	Now - Sale / Exchange	AeroTurbine	Elizabeth Peters	epeters@aeroturbine.com	+1 786 925 8517
PW4000 Engines	Sale / Lease	Company	Contact	Email	Phone
(3) PW4056-1	Now - Sale/Lease/Exch.	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(4) PW4056/60/62	Now - Sale / Lease	Magellan Aviation Group	Bill Poly / T. Leimkuhler	tom.leimkuhler@magellangroup.net	+1 (704) 504-9204
(1) PW4060-3	Dec 14 - Sale / Lease	Royal Aero	Frank Rustmeier	frank@royalaero.com	+49 (0)8025 99360
(1) PW4056-3	Now - Sale / Lease	Fortress Investment Group	Thomas Garbaccio	Aviation@fortress.com	+1 212-497-2917
(1) PW4060-3	Now - Sale / Lease				
(1) PW4060-1 CN	Now - Lease	AeroTurbine	Elizabeth Peters	epeters@aeroturbine.com	+1 786 925 8517
(1) PW4062-3	Now - Lease				
(1) PW4056-3	Now - Sale / Lease	AerSale, Inc.	Matthew White	matthew.white@aersale.com	+353 1475 3005
(1) PW4056-1C	Now - Sale/Lease/Exch.				
(1) PW4056-1	Now - Sale/Lease/Exch.				
(1) PW4062-3	Now - Sale / Lease				
(2) PW4168A	Now - Sale/Lease/Exch.	TES Aviation Group	Lee Whitehurst	lee.whitehurst@tes-uk.com	+ 44 (0) 7760 884250
(1) PW4062	Now - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
(1) PW4060	Now - Lease				
(2) PW4168A	Now - Lease				
(1) PW4168A	Now - Sale / Lease	Engine Lease Finance	Joe Hussar	joseph.hussar@elfc.com	+1 (617)828-3569
RB211 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) RB211-535E4	Now - Sale/Lease	MBA Aircraft Solutions	Jacob Agnew	jagnew@mbaas.aero	+1 703.276.3202
(2) RB211-535E4	Now - Sale	Aerolease	Tim Corley	tcorley@aerolease.com	+1 360 8709172
(1) RB211-535E4B	Now - Sale / Lease	GA Telesis	Stefanie Jung	sjung@gatelesis.com	+1 954-958-1321
(1) RB211-535E4	Now - Sale / Lease	Fortress Investment Group	Thomas Garbaccio	Aviation@fortress.com	+1 212-497-2917
(1) RB211-535E4 /12B	Now - Sale/Lease/Exch.	TES Aviation Group	Lee Whitehurst	lee.whitehurst@tes-uk.com	+ 44 (0) 7760 884250
Trent Engines	Sale / Lease	Company	Contact	Email	Phone
(2) Trent 800	Now - Sale / Lease	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(1) Trent 884-17	Now - Sale / Lease	Apollo Aviation Group	Erik Castillo	erikc@apollo.aero	+1 (305) 579-2340
Tay Engines	Sale / Lease	Company	Contact	Email	Phone
(multiple) Tay 650-15	Now - Sale / Lease	Jet Midwest	Kevin Lee / Cathy Liu	cathy.liu@jetmidwest.com	+1 310 652 0296
V2500 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) V2527-A5	Now - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
(1) V2533-A5	Now - Lease				
1) V2533-A5 w/QEC	Now - Lease	Rolls-Royce & Partners Finance	Bobby Janagan	bobby.janagan@rolls-royce.com	+44 20 7227 9078
(1) V2527-A5 w/QEC	Now - Lease				
(1) V2533-A5	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@werneraero.com	+1-703-402-7430
(1) V2527-A5	Now - Lease	Engine Lease Finance	Joe Hussar	joseph.hussar@elfc.com	+1 617 828-3569
(1) V2533-A5	Now - Sale / Lease				

Aircraft and Engine Parts, Components and Misc. Equipment

Description		Company	Contact	Email	Phone
QEC for CFM56-5A1	Now - Sale	TrueAero, LLC	Raul Miro/Dave Walters	sales@trueaero.com	+1 772-925-8026
A320 Fresh Part-out	Now - Sale				
737-500 Fresh Part-out	Now - Sale				
APU (2) GTCP 131-9B	Now - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
APU 3800298-1-2 (B767)	Now - Sale / Lease	Jet Midwest	Kevin Lee / Cathy Liu	cathy.liu@jetmidwest.com	+1 310 652 0296
GTCP131-9A (P/N 3800708-1)	Now - Sale / Lease	Werner Aero Services	Christopher Farrell	cfarrell@werneraero.com	+1 201-661-6819
1 V2500 QEC kit, p/n 745k9001-46	Now - Sale	Tradewinds Engine Serv.	Brad Pleimann	bpleimann@tesllc.aero	+1 954 421 2510
CFM56-7B Evol. LPT mod. Ass. 338-092-319-0	Now - Sale				
CFM56-5B/5C/7B and V2500-A5 engine stands	Now - Lease				
737-800 NOSE LANDING GEAR PN 162A1100-5, OH - Now Sale		Reliance Aircraft	Terry Hix	thix@relianceaircraft.com	+1 512-439-6988
(1) PW901A	Now - Lease	LHT AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
GTCP131-9B, PW901, (2) GTCP36-300,	Now - Sale/Lease/Exch.	Aeroturbine	Rodney Lee	ralee@aeroturbine.com	+1 972-813-1176
GTCP131-9A, (2) RE220RJ, GTCP331-350C, APS3200					