

# AviTRADER WEEKLY AVIATION HEADLINES

Read by thousands of aviation professionals and technical decision-makers every week

www.avitrader.com

## WORLD NEWS

### Airbus to set up own bank

Airbus Group bought shares in a Munich-based bank, which will be renamed Airbus Group Bank and which will be developed to provide finance solutions to support the Group's businesses. The deal is expected to be closed within the coming weeks.

See page 12 for more information

### Rolls-Royce net profit fall

Rolls-Royce, the British engine-maker, warned that expected revenue growth to be flat in 2014 for the first time in a decade, after posting a 41-per-cent fall in net profits in 2013. Despite strong performances by its commercial aviation division, the ongoing cuts in the global military sector are 'rolling through and hitting us', according to chief executive John Rishton.

### Norwegian gets Irish base

Norwegian secured final approval from Irish regulators to base its international unit out of the country and will now apply to the US to launch trans-Atlantic flights, in what is seen as a test case for budget travel on the world's most lucrative international route. The airline posted a net loss of NOK196.8m (\$32.3m) in the fourth quarter of 2013, down from net profits of 23.6m in the same period last year.

### EU - ASEAN open skies?

The European Commission and ASEAN, the Association of Southeast Asian Nations, have opened talks on a comprehensive air transport agreement that would provide greater market access and integration in air services and the aviation industry, as well as cooperation to improve the efficiency of air traffic management, and to harmonise safety and security standards



The Airbus A350 (left) was on display last week at the Singapore Airshow

Airbus

## Singapore Airshow comes of age with \$32bn in orders New Southeast Asian low-cost carriers fuel burgeoning demand

Singapore confirmed its place as host of one of the four largest global airshows in the world after Paris, Farnborough and Dubai after it closed its doors on the fourth edition of the event last week, with deals worth a record \$32bn - \$1bn more than the previous record set at the 2012 edition.

And according to *The Economist*, Singapore could even leave Dubai behind in the near future to become the third-biggest show - quite an accomplishment, it said, for a country that 'does not even make planes'.

New figures released last week by the Singapore Economic Development Board revealed that the island's aerospace industry, based in large part around the booming Seletar Aerospace Park, is worth some S\$8.7bn (\$6.9bn) and employs nearly 20,000 people,

The country's location in the heart of southeast Asia places it firmly at the centre of the region's booming commercial aircraft sector, which has been

### Singapore Airshow 2014: Key orders

| Customer                      | Provider          | Order   | Value <sup>1</sup>    |
|-------------------------------|-------------------|---|-----------------------|
| Turkish Airlines              | IAE               | V2500 engines for 25 A321                               | \$560m                |
| Myanma Airways                | GECAS             | Lease of 10 737 family jets                             | \$1bn                 |
| VietJetAir                    | Airbus            | up to 100 A320 family jets                              | \$9bn <sup>2</sup>    |
| VietJetAir                    | CFM International | CFM56-5Bs for 21 A320s                                  | \$800m                |
| Amedeo                        | Airbus            | Firm order: 20 A380s                                    | \$8.3bn               |
| DAE, Bangkok Airways & others | ATR               | combined orders and commitments of up to 48 ATR 72-600s | \$1.2bn               |
| Air Costa                     | Embraer           | up to 100 E-Jet E2x                                     | \$5.88bn <sup>2</sup> |
| Nok Air                       | Boeing            | up to 15 737 family jets                                | \$1.45bn              |

<sup>1</sup>at list prices; <sup>2</sup>with options

buoyed in recent years by large orders from upstart low-cost carriers like Indonesia's Lion Air and Malaysia's Air Asia.

Orders at this year's Singapore Airshow were boosted by a new crop of budget carriers, including VietJetAir, Vietnam's only privately-owned carrier, which agreed to buy up to 100 Airbus A320 family aircraft in a deal worth more than \$9bn at list prices, and Thailand's Nok Air, which made a provisional booking for up to 15 Boeing 737 family aircraft, worth some \$1.45bn.

Embraer announced a major new deal with Air Costa, an Indian carrier which only launched four months ago, and which placed a firm order for 50 Embraer E-Jet E2 aircraft plus 50 options, valued at a total of \$5.88bn.

Myanmar's state carrier Myanma Airways also hit the headlines when it placed an order with GECAS to lease 10 Boeing 737 family jets as the country becomes increasingly open to the outside world after years of isolation.

Continued on page 13



**Reliance Aircraft**  
INTERNATIONAL

Terry Hix | thix@relianceaircraft.com  
(512) 439-6988 | Austin, TX

### CURRENTLY IN TEARDOWN

ex-Jetairfly 767-300ER, ex-Lufthansa 747-400

### FOR SALE

737-800 Nose Landing Gear

### TEARDOWN INVENTORY

ex-Gulf Air 767-300ER, ex-Malaysia 737-400, ex-Delta 757-200ER  
(3) ex-American 300-600, ex-KLM 737-400, 737-500  
ex-American MD82, ex-Southwest Airlines 737-300



**GA**  
TELESIS

**KEEP  
CALM  
AND  
CARRY  
ON**

GLOBAL LIVE AOG SERVICE 24/7/365

[www.gatelesis.com](http://www.gatelesis.com)

**AIRCRAFT & ENGINE NEWS**

**Norwegian acquires four new 787-9 Dreamliners**

Norwegian signed an agreement to acquire four new Boeing 787-9 Dreamliners. This means that the company has ordered 14 wide-body aircraft in total; three of which are already in service. The 787-9 is larger than the 787-8 that Norwegian currently operates on its long-haul routes. Norwegian continues to expand its international operations by entering into an agreement with International Lease Finance Corporation (ILFC) to lease four Boeing 787-9 Dreamliners. The new Dreamliners are expected to enter service in 2017 and 2018.

**P&W to provide fuel efficient PurePower engines on Air Costa order for 50 Embraer jets**

Pratt & Whitney will provide exclusive power for 50 firm Embraer E-Jets E2 aircraft, with an additional 50 purchase rights, for an order announced by Embraer and Air Costa. Deliveries are scheduled to begin in 2018. The PurePower Geared Turbofan (GTF) engine family has more than 5,000 orders and commitments, including options.

**India's Air Costa places firm order for 50 E-Jets E2s**

Embraer S.A. signed a definitive agreement with India's Air Costa for a firm order for 50 E-Jets E2s with an additional 50 purchase rights. The acquisition is a mix of 25 E190-E2s and 25 E195-E2s and has an estimated value of \$2.94bn based on 2014 list prices. The purchase rights are for an additional 25 E190-E2s and 25 E195-E2s, bringing the total potential order to up to 100 aircraft and can reach \$5.88bn if all are exercised. This transaction raises the total E-Jets E2 orders to 200 firm and 200 options/purchase rights since the launch of the E2 program, in June 2013. Air Costa has become the first customer of E-Jet E2s in the Indian market and will take delivery of the E190-E2 in 2018. The E195-E2 is scheduled to enter service in 2019. Today, the airline flies four E-Jets: two E170s and two E190s. Air Costa is based out of Vijayawada, Andhra Pradesh.

**Airbus: Asia-Pacific needs 11,000 aircraft over the next 20 years**

Airlines in the Asia-Pacific region will lead global demand for larger and more eco-efficient aircraft over the next 20 years, according to Airbus' latest Global Market Forecast (GMF). Airlines from the region will take delivery of some 10,940 new passenger and cargo aircraft from 2013-2032, valued at \$1.8 trillion. This represents 37% of all new aircraft deliveries worldwide over the next 20 years, ahead of Europe, North America and the Middle East. In value terms, the region will account for 42 per cent of the global market for new airliners, reflecting the higher proportion of widebody aircraft required in Asia-Pacific. In the passenger market, the fleet of aircraft operated by Asia-Pacific carriers is expected to more than double in the next 20 years, from 4,960 aircraft today to over 12,130 jets, based on higher than average annual traffic growth of 5.8% and replacement of nearly 3,770 aircraft in service today.



VietJet, Airbus' latest Asian customer

Airbus

**Boeing forecasts \$1.9 trillion 20-year market for new airplanes in Asia Pacific**

Boeing (BA) says strong economic and passenger growth will be main drivers of new airplane demand in the Asia Pacific region. Boeing estimates the region's airlines will need an additional 12,820 airplanes valued at \$1.9 trillion, representing 36% of the world's new airplane deliveries over the next 20 years. "Asia Pacific economies and passenger traffic continue to exhibit strong growth," said Randy Tinseth, vice president, Marketing, Boeing Commercial Airplanes during a media briefing before the opening of the Singapore Airshow. "Over the next 20 years, nearly half of the world's air traffic growth will be driven by travel to, from or within the region. The Asia Pacific fleet will nearly triple, from 5,090 airplanes in 2012 to 14,750 airplanes in 2032, to support the increased demand." Boeing's data projects that passenger airlines in the region will rely primarily on single-aisle airplanes such as the Next-Generation 737 and the 737 MAX, a new-engine variant of the market-leading 737, to connect passengers. Single-aisle airplanes will represent 69% of the new airplanes in the region.



Thailand's Nok Airlines committed to buying 15 737 family jets worth \$1.45bn

Boeing

**Aerolíneas orders GE's CF6 engines for Airbus A330 fleet**

Aerolíneas Argentinas ordered GE's CF6-80E1 engines to power its four new Airbus A330-200 aircraft. "GE and Aerolíneas Argentinas have a strong relationship with the majority of their fleet powered by GE or CFM56\* engines," said Doug Izarra, Vice President for the Americas Sales at GE Aviation. "The selection of CF6-80E1 engines will continue

to strengthen our relationship and demonstrates Aerolíneas Argentinas continued commitment to GE technology."

**TransAsia Airways' first ATR 72-600 on its way to Taiwan**

Taiwanese full service airline, TransAsia Airways collected its first new ATR 72-600 plane at a ceremony with ATR, the world's largest manufacturer of regional turboprop aircraft, in



A. Man aspires.



B. Man constructs.



C. Man soars.

FIG. 1 Building on where we came from to help you move forward.

**MAGELLAN AVIATION GROUP**

North America +1 704 504 9204  
salesusa@magellangroup.net

Europe +353 61 474800  
sales@magellangroup.net

magellangroup.net

Toulouse, France. The plane is the first of 12 ATR 72-600s ordered by TransAsia Airways as part of its fleet renewal and growth program. Other planes, which will gradually replace the aircraft currently operated by TransAsia, are scheduled to be delivered within the next 2 years. The airline will start commercial services on February 21st from Taipei Songshan Airport to Magong, gradually expanding services to all other domestic routes. The investment in new planes is part of the airline's modernization plan, which maintains Trans Asia as one of Asia's top regional airlines.

### Nepal Airlines selects V2500 SelectOne engines for A320ceo's

Nepal Airlines Corporation (NAC) has signed its first order with IAE International Aero Engines AG to supply V2500-A5 SelectOne engines to power two new firm A320ceo aircraft plus options for two additional aircraft. Aircraft deliveries are scheduled for 2015.

### Amedeo firms up order for 20 A380s

Amedeo (previously Doric Lease Corp) and Airbus finalised the contract for 20 A380s originally announced at the 50th Le Bourget Airshow on June 17th, 2013. The final agreement was signed at the Singapore Airshow 2014 by Mark Lapidus, CEO of Amedeo and John Leahy, Airbus chief operating officer, Customers.

### Weststar orders 10 additional AW139 Helicopters

AgustaWestland and Weststar Aviation Services announced that a contract for 10 AW139 intermediate twin helicopters was signed on

### Strong results for GE's record-setting high pressure compressor rig testing

Testing continues on the high pressure compressor (HPC) module for the GE9X engine that will power Boeing's 777X aircraft. The tests began in September at a GE Oil & Gas testing facility in Massa, Italy, and the module has accumulated close to 300 hours of testing today. "The test results for the GE9X HPC rig are very promising as the module achieved the 27:1 pressure ratio—the highest pressure ratio for any commercial aircraft engine," said Bill Millhaem, general manager of the GE90/GE9X Program at GE Aviation. "The testing has validated the efficiency and operability of the HPC module design well ahead of the entry into service and supports our plan to deliver a 10% fuel burn improvement over today's GE90 engines." The HPC module is a 90% scale of the full-size HPC with more than 1,000 pieces of instrumentation that enable GE's engineer to collect the necessary data to optimize the HPC module design. A GE LM2500 engine generates more than 29,000 horsepower to drive the HPC module during the test. When the rig test is completed in March, the module will have accumulated 450 run hours. GE plans to begin testing a second HPC module at the Massa, Italy test facility later this year and a third HPC module prior to first engine to test in 2016. GE will spend a total of \$300m in 2014 on maturation testing of technologies for the new GE9X engine. Testing will include the Universal Propulsion Simulator (UPS) fan performance tests that is underway at Boeing's Seattle, Washington facility. This test will provide key data on the GE9X fan design, which will be the largest fan diameter of any commercial aircraft engine to date.

February 11th, at the Singapore Air Show. This additional order by one of the major oil & gas operators in the area confirms the success of the AW139 and of AgustaWestland for off-shore missions with a 56% market share in the intermediate category in the last five years.

### Boeing, Nok Air announce commitment to order 737 MAXs, Next-Generation 737s

Boeing and Nok Airlines announced a commitment to order eight Next-Generation 737-800s and seven 737 MAX 8s. The commitment, valued at \$1.45 billion at list prices, will establish Nok Air as the first airline in Thailand

to operate the 737 MAX. Boeing will work with the Bangkok-based airline to finalize the details of the agreement, at which time the order will be posted to the Boeing Orders & Deliveries website.

### Air Juan purchases first Bell 429 WLG for use in Philippines

Bell Helicopter and Air Juan signed a purchase agreement on February 11th, for a Bell 429 in a wheeled landing gear (WLG) configuration. This aircraft is the first WLG configuration to be sold into the Philippines. Air Juan, which is based in the Philippines, will use the aircraft for corporate travel and to support its charter

### Embraer projects 1,500 new deliveries of 70 to 130-seat jets in Asia Pacific over next 20 years

Embraer Commercial Aviation forecasts that airlines in Asia Pacific, including China, will take delivery of 1,500 new jets in the 70 to 130-seat segment over the next 20 years (valued at US\$70bn at list prices), representing nearly 20% of the worldwide demand for the segment in the period. Of the region's new deliveries, 65% are expected to support market growth while 35% will replace ageing aircraft being retired. The Asia Pacific market will become more affluent, competitive and liberal, further stimulating airlines to seek system efficiencies, brand differentiation and improved service levels. In this context, the 70 to 130-seat jet segment will play a key role to support the intra-regional development in Asia Pacific. "Passenger traffic in the Asia Pacific region is mostly composed by secondary markets with low and medium demand densities of up to 300 passengers daily each

way. Some 60% of those markets are not served nonstop, and around half of all markets served do not allow for same day return travel," said Paulo Cesar Silva, president & CEO, Embraer Commercial Aviation. "Embraer E-Jets provide the capability to develop a better traffic feed system and greater network connectivity, as well as improving the quality of services on existing

markets where there is not enough demand to support larger single aisle aircraft operations." The region's economic growth has altered its socio-demographic context, with an increased urban middle class with more discretionary spending and therefore higher propensity to air travel. A positive economic outlook and intra-regional liberalization will drive air transport demand in Asia Pacific to increase 6% annually by 2032, led mainly by China and India. The region will become the world's largest market accounting for 34% of total revenue passenger kilometers.



Embraer predicts that Asia-Pacific will take delivery of 1,500 new 70 to 130 seat jets, like the E-Jet 195 (above) in the next 20 years

AirTeamImages

businesses which serve VIP, industrial, corporate travel and leisure markets.

Bell Helicopter also delivered a Bell 407GX in India to SpanAir, the country's leading air charter company. Specializing in customized travel options, SpanAir offers a fleet of aircraft fully equipped with the latest in aviation and safety technology, including all weather and IFR facilities. With the addition of the 407GX, featuring the first integrated Garmin G1000H flight deck, SpanAir now has one of the most modern and advanced fleets operating in India.

### Dubai Aerospace Enterprise orders 40 ATR 72-600s

On the occasion of the Singapore Airshow, the European turboprop aircraft manufacturer ATR and the United Arab Emirates' leasing firm Dubai Aerospace Enterprise (DAE) announced a contract for the purchase of 40 ATR 72-600s, which includes firm orders for 20 aircraft and options for 20 additional ones. DAE is the largest aviation leasing firm in the Middle East with an aircraft portfolio of approximately \$3.3bn comprised of B737s, B777s, A320s and A330s. This latest deal represents DAE's first order for regional aircraft. The 20 firm aircraft are scheduled to deliver between 2015 and 2018. The contract is a major milestone in ATR's recent history and underlines the increasing interest of leasing firms from all over the world in the ATR aircraft family. The ATR 72-600, equipped with new avionics suite and totally redesigned cabin interiors, has become in recent years the preferred regional aircraft below 90 seats for lessors and airlines operating short-haul networks.

### Lufthansa Group taking delivery of 23 new aircraft

On February 7th, 2014, Lufthansa's tenth Boeing 747-8 Intercontinental landed at

### CFM sees record orders, production levels in 2013

2013 proved to be another record year for CFM International (CFM) with the company logging orders for a total of 2,723 engines, including 1,330 CFM56 engines (commercial, military and spares) and 1,393 LEAP engines (including spares). These orders – the highest level in the company's 40-year history - are valued at more than \$31bn at list price. By comparison, CFM booked a total of 1,998 CFM56 and LEAP engine orders in 2012 at a value of \$23.5bn at list price. As the company logs record commitments, CFM is also achieving historic production rates for the CFM56 product line. The company delivered 1,502 CFM56 engines in 2013, compared to approximately 1,420 in 2012. Current plans are to reach more than 1,700 engines per year by 2019 as the company transitions from CFM56 to LEAP engine production. CFM has the highest production rate in the industry and has consistently built more than 1,000 engines per year since 2006.



CFM posted record engine orders in 2013  
CFM International

Frankfurt Airport. The "dash-8" is just one of seven brand-new airliners that will be joining the Group in February and March. Over the next few weeks, these ultra-modern jets will be arriving like pearls on a necklace at Frankfurt: alongside three Boeing 747-8s, Lufthansa has acquired one Airbus A380, one A330 and two A320. In addition, Germanwings will receive an A319 and Lufthansa Cargo will take delivery of a Boeing 777F freighter. All in all, the Group expects to receive 23 ultra-modern commercial aircraft this year.

### BOC Aviation selects Pratt & Whitney engines for new A320neo aircraft

BOC Aviation selected Pratt & Whitney to power 15 new Airbus A320neo family aircraft as part of an ongoing strategy to build up a fleet of modern, fuel-efficient, in-demand aircraft to meet customer demands. Pratt & Whitney, a division of United Technologies

Corp., will supply the PurePower PW1100G-JM engines for delivery starting in 2017.

### VietJetAir and Nok Air opt for CFM engines to power new aircraft

Vietnam's VietJetAir selected CFM International's CFM56-5B engine to power 21 firm Airbus A320ceo (current engine option) family aircraft, including 14 A320ceos and 7 A321ceos. The agreement is valued at more than \$800m at list price. Furthermore, Thailand's Nok Air announced a commitment to order eight Next-Generation 737-800s powered by CFM56-7B engines and seven 737 MAX 8s that will be powered by the LEAP-1B engines.

### Bangkok Airways orders up to eight ATR 72-600s

ATR and the Thai airline Bangkok Airways announced a contract for the sale of six firm

# EASA REGULATIONS AND CONTINUING AIRWORTHINESS SEMINAR

Monday 29 April 2014, Clarion Hotel, Dublin

CPD Credits for UK Lawyers

Official Publications

Organised by

ATR 72-600 aircraft and two options, valued at almost \$200m. Bangkok Airways has been operating ATR aircraft for two decades and currently operates a fleet of eight ATR 72-500s. The first new ATR 72-600s will be delivered later this year, allowing Bangkok Airways to start renewing its fleet and to offer all the new comfort and cabin features of the ATR-600s to its customers.

### Turkish Airlines orders V2500 engines for new A321s

Turkish Airlines entered into an agreement under which IAE International Aero Engines AG's V2500 engines will power 25 new A321 aircraft. This brings the total number of V2500-powered A320 aircraft in their fleet to 110. The deal is valued at \$560m. Aircraft deliveries will commence in 2015 and continue through 2017.

### Small Planet Airlines will operate 11 aircraft in 2014

Small Planet Airlines will take delivery of 3 A320s this year. One has already been delivered and two more are expected in spring. A record of 11 aircraft will be utilized by the airline this summer – 9 A320s and 2 737-300s – across its bases in UK, Poland, Lithuania and France. Better economy in Europe is fuelling passenger numbers planning their holidays abroad and this in turn increases demand for charter flights by the tour operators. Small Planet Airlines is well positioned to capture this additional demand due to its competitive cost structure and ability to add more aircraft.

### Spain's Binter Canarias signs contract for six ATR 72-600s

ATR and the Spain's Canary Islands carrier Binter Canarias announced a contract for the sale of six firm ATR 72-600 aircraft, valued at almost \$150m. With the acquisition of the fleet of these newest ATR '-600s' the airline will enter into the renewal process of their current fleet of 18 ATR 72s which have been operating successfully in the inter-islands network for years. Binter Canarias is a long-standing ATR operator in Europe, introducing their first ATR aircraft in the late 1980s.

### Volaris to lease 16 more new aircraft

Controladora Vuela Compania de Aviacion (Volaris), the ultra-low-cost airline serving Mexico, and the US, has signed a letter of intent with a leading aircraft lessor for 16 aircraft, comprised of ten new A320neo and six new A321neo, driving fleet growth while significantly enhancing efficiency. These NEO aircraft, powered by Pratt & Whitney's PW1100G engines, will be delivered between 2016 and 2018.

### GECAS to lease 10 new Boeing aircraft with Myanmar Airways

GE Capital Aviation Services, the commercial aircraft leasing and financing arm of GE, signed a contract with Myanmar Airways, the flag carrier of Myanmar, to lease 10 new Boeing narrow bodies. Deliveries of the new leased aircraft are scheduled to begin in June 2015 and come from GECAS' existing order book with Boeing. The contract calls for six Boeing 737-800 models and four Boeing 737-8MAX models. The aircraft will deliver through 2020.



Myanmar Airways will soon have 10 new Boeing 737s *AirTeamImages*

### Nexcelle provides first components for CFM International's LEAP-1C engine

Nexcelle – the joint venture of Aircelle (Safra) and GE Aviation's Middle River Aircraft Systems for a new generation of engine nacelles on integrated propulsion systems – has delivered its first O-Duct nacelle to equip CFM International's LEAP-1C engines for the COMAC C919 jetliner. Developed and manufactured by Aircelle, this innovative O-Duct marks a milestone in Nexcelle's production hardware deliveries, and is to be used – together with other nacelle components – for engine flight test. Nexcelle has also delivered the first LEAP-1C air inlet from Middle River. The hardware has been installed on a LEAP development engine currently undergoing tests. The one-piece composite O-Duct delivered by Nexcelle is a technology breakthrough in nacelle design for integrated propulsion systems, replacing a traditional thrust reverser's two-piece "D" doors. When deployed, the O-Duct moves aftward to the reverse thrust position, eliminating drag links in the engine's secondary flow-path, enhancing the airflow path and improving fuel consumption, while also increasing thrust reverser efficiency.

## MRO & PRODUCTION

### Sabaidee Airways signs agreement with Ameco Beijing

Sabaidee Airways signed an agreement with Ameco Beijing during Singapore Airshow on February 12th, which covers customer's fleet service from 2014 to 2018 including AOG support, airframe C/D check, engine repair/overhaul, LDG repair/overhaul.

### THAI Smile extends Airbus' Flight Hour Services contract to 20 A320 aircraft

THAI Smile, a subsidiary of THAI Airways and Airbus extended their existing 15 years 'Flight

Hour Services – Tailored Support' (FHS-TSP) contract, adding nine additional leased A320 aircraft to cover its entire fleet of 20 A320 aircraft. The contract provides an extensive scope of A320 line replaceable units (LRUs), guaranteed spare parts availability through Pool access service and on-site stock at THAI Smile's main base and selected outstations, repair services, logistics services, tools availability, APU and nacelle services.

### Pakistan International Airlines awards P&W PW4000 engine management program

Pratt & Whitney signed an exclusive, three-year Engine Management Program (EMP) agreement with Pakistan International Airlines (PIA) to maintain the airline's fleet of 12 PW4152 installed engines. The Pratt & Whitney engines that are covered under this agreement power PIA's fleet of A310 aircraft.

### Tigerair awarded Pure-V engine designation

IAE International Aero Engines awarded Singapore-based operator Tigerair the Pure-V designation for V2500 engines powering its aircraft. A Pure-V designated engine contains IAE-approved parts and repairs throughout the entire engine. The program was created to provide a designation IAE customers' engines that have been maintained to OEM standards, for example those covered by a Fleet Hour Agreement (FHA), and to recognize the superior value of these engines. According to IAE's records, approximately 60% of the V2500 fleet qualifies as Pure-V.

### East Air sign five year agreement with AJW Aviation

AJW Aviation signed a five year framework agreement with East Air the private carrier based in Tajikistan. The airline operates one A320-300 and one Boeing 737-400 aircraft



**SAA Technical (SOC) Limited  
(Reg. No 1999/024058/07)  
Situatd at OR Tambo International Airport  
Republic of South Africa  
(Hereinafter referred to as “SAAT”)**

**REQUEST FOR BID (RFB) FOR THE FOLLOWING:**

---

**RFB NO. SAAT024/13**  
**AIRCRAFT CRASH RECOVERY EQUIPMENT:**

- **A380 Body Landing Gear Towing Kit**
- **Aircraft Transport Turntable**

**RFB NO. SAAT003/14**  
**AIRCRAFT CRASH RECOVERY EQUIPMENT:**

- **Low Pressure Top Bag**
- **Single Element Lifting Elevators**
- **Element Controller**

Enquiries may be directed **ONLY** in writing to the Project Manager:  
Rohit Hansjee – [Rohithansjee@flysaa.com](mailto:Rohithansjee@flysaa.com)  
Fax No.: (011) 978 2638

---

SAAT hereby invites suitably qualified suppliers to tender for the above request.

RFB documents will be made available for download on [www.flysaa.com](http://www.flysaa.com)

(Click on “About Us”, then “SAA Tenders”) from

Tuesday **18 February 2014**

The submission closing date for the RFB is **4 March 2014, 11h00 (GMT)**.

No late submissions will be considered.

and will be fully supported by AJW across the supply and repair of components, as well as AJW's global AOG service. This end-to-end programme is backed up by AJW's strategic inventories located in Russia and Eastern Europe, and the dedicated Russian speaking support teams across the region. East Air was the first private airline in Tajikistan, and the first to fly Boeing and Airbus aircraft in the country. Since 2007 East Air has operated flights to Moscow, St. Petersburg, Novosibirsk, Yekaterinburg, Kazan and Orenburg.

### CDB Leasing of China first PurePower engines customer in Mainland China

With an order for up to 30 C Series aircraft, CDB Leasing (CLC) of China will be the first recipient of Pratt & Whitney PurePower engines in mainland China. In a purchase agreement with Bombardier Aerospace, CLC will receive up to 30 CS100/CS300 aircrafts. The C Series aircraft family is powered exclusively by Pratt & Whitney PurePower PW1500G engines.

### Malaysia Airlines awards P&W \$550m Fleet Management Program

Pratt & Whitney signed an exclusive, 10-year Fleet Management Program (FMP) agreement with Malaysia Airlines to maintain the airline's fleet of 43 PW4170 installed engines and spare engines. The agreement, which includes an option to extend the contract for up to five additional years, is valued at approximately \$550m. The Pratt & Whitney engines power Malaysia Airlines' fleet of A330 aircraft.

### UTC Aerospace Systems expands C.A.R.E. program for maintenance support on Singapore Airline's Boeing 777 fleet

UTC Aerospace Systems extended its Comprehensive Accessory Repair and Exchange (C.A.R.E.) program with Singapore Airlines to provide repair services and asset management for the airline's expanded fleet of Boeing 777 aircraft. The original C.A.R.E. program for Singapore Airlines began in 2007 and included

## LUFTHANSA TECHNIK NEWS

### Lufthansa Technik concludes contract with Evergreen Aviation Technologies

Lufthansa Technik concluded a contract with EVA Air's technical services company, Evergreen Aviation Technologies (EGAT), for component supply for the airline's new fleet of Airbus A321 aircraft. The new Total Component Support (TCS®) agreement covers component overhaul and engineering services as well as warehousing and pooling at Lufthansa Technik's Singapore facility. EVA Air, a Star Alliance member, has relied on support from Lufthansa Technik for its Airbus A330 fleet for ten years now, and recently entrusted the company with Boeing 747s as well.

### Lufthansa Technik Shenzhen expands Asian service portfolio

Lufthansa Technik Shenzhen (LTS) is expanding its maintenance, repair and overhaul (MRO) offer for the Asia-Pacific region even further. LTS is a Chinese composite materials specialist headquartered at Bao'An International Airport in Shenzhen in southern China. The company is currently tripling its workshop and warehouse capacity to nearly 25,000 square meters and strengthening its presence in the areas of component supply, logistics services and Airline Support Teams (AST) for engine services across China and Asia.

### Cyclean Engine Wash strengthens presence in Asia

Lufthansa Technik won two new Asian customers for Cyclean Engine Wash. Asiana Airlines and Hong Kong Airlines now number amongst the more than 30 airlines worldwide using the MRO provider's product. Lufthansa Technik already offers the engine cleaning service at stations in North and South America, Europe, and Asia. Asiana Airlines began cleaning the engines for its entire fleet with the Cyclean System in Seoul, Korea, in December 2013. Hong Kong Airlines became the newest customer in January 2014, with its own fleet along with the fleet of its subsidiary, Hong Kong Express, having CFM56-5B, PW4000 and RR Trent 700 engines cleaned at the Hong Kong hub.

### P&W marks opening of new MRO and engineering facility at Singapore Seletar Aerospace Park

Pratt & Whitney marked the official opening of Pratt & Whitney Component Solutions, the company's new repair and engineering facility at Singapore's Seletar Aerospace Park. The new flagship facility performs certain PW4000 engine component repair and will house various office support departments, including the company's recently established regional office, and Global Services Engineering – Asia, which provides highly skilled aftermarket repair design for the company's businesses in the Asia Pacific region. The new Pratt & Whitney Component Solutions unit forms part of Pratt & Whitney's US\$110m investment in Seletar Aerospace Park, where the company is also building a new 180,000 ft<sup>2</sup> manufacturing facility to manufacture PurePower engine hybrid aluminum fan blades and high pressure turbine disks.



Celebrating the opening of the P&W repair and engineering facility at Seletar P&W

Search or sell with

# StockMarket.aero

Join the world's fastest growing online aviation parts marketplace

PARTS SEARCH • SEND RFQS • PRICE SEARCH • RECEIVE POS • IPHONE/ANDROID



component control

MRO & Logistics Software Solutions  
componentcontrol.com



**Boeing selects Monarch Aircraft Engineering to provide GoldCare to Norwegian Air International**

Monarch Aircraft Engineering (MAEL) was selected by Boeing to provide GoldCare support to Norwegian Air International's Boeing 787 Dreamliner operation at London Gatwick Airport in the UK. MAEL's experienced engineering team will commence support services in the second quarter of 2014 with the first of four Boeing 787 Dreamliner aircraft entering into an initial short haul flying programme from London Gatwick.



Norwegian's 787 Dreamliners will be serviced by MAEL at London Gatwick

service coverage of air management and electric power systems for the carrier's B777 fleet. This expansion of the agreement includes service coverage for eight additional B777-300ER aircraft and extends the agreement through the year 2025.

**Turbomeca extends Indonesian Customer Support Contract**

Turbomeca (Safran) announced its agreement with Indonesia's PT Travira Air for a Customer Support agreement extending a "Support By The Hour" (SBH) contract for five more years. The €5.7m (\$9.5m) contract covers a total of 20 engines (Arriel 1D1, 2S1, 2S2 and 1S1), including spares, fitted to seven Sikorsky S76 and one Airbus Helicopters AS350B2 aircraft. Through this agreement Turbomeca reaffirms its commitment to supporting PT Travira Air's fast-growing off-shore operations, from bases in Jakarta (Indonesia) and Kota Bahru (Malaysia).

**TAP M&E Brazil announces cooperation with Lufthansa Cargo AG**

TAP Maintenance and Engineering Brazil, part of TAP Portugal Group, announced its cooperation with Lufthansa Cargo AG to launch MD-11F heavy maintenance services starting end of January 2014. The Company looks forward to delivering its decades of superior MD-11 heavy maintenance services in operational support of Lufthansa Cargo AG. Lufthansa Cargo AG operates a fleet of 16 MD.11Fs and 2 B777Fs.

**Airline Services Components to provide PBH support to Nigeria's Discovery Air**

Nigerian-based Discovery Air has selected ASC to provide full component support on its fleet of Boeing B737-300 aircraft. This Power-by-the-Hour (PBH) contract will cover an initial three operational aircraft, with scope to expand as the airline looks to develop its route network domestically and regionally to destinations including Gambia, Ghana and Cameroon. New

start-up Discovery Air was incorporated in July 2008 and is set to begin operations with domestic and regional flights from its main hub in Lagos, Nigeria. Selected for the company's superior strength on the B737 platform, ASC will support Discovery with a dedicated home base stock on-site in Lagos and component pool at London Gatwick. The contract will continue for a period of three years with the option to renew at the end of the term.

**Ontic and Rolls-Royce enter license agreement**

Ontic UK entered into license agreement with Rolls-Royce for the manufacturing and worldwide distribution rights for Dart aircraft engine components. The transition of support and manufacturing capabilities to Ontic's Cheltenham, UK facility will commence immediately. Technical support will continue to be offered by Rolls-Royce. The Dart engine is in service on an active fleet of 218 aircraft that include the Avro/Hawker Siddley HS748, HAL 748, Fokker F27, Gulfstream I, NAMC YS11, Convair CV 640. Ontic's global legacy focus is supported from manufacturing and MRO facilities in Chatsworth, California; Houston, Texas; and Cheltenham in the United Kingdom. The Dart engine will be supported primarily from Ontic's Cheltenham, UK facility.

**Boeing and Alenia Aermacchi finalize restructured contract for the 787 Program**

Boeing and Alenia Aermacchi, a Finmeccanica Company, finalized a restructured contract for the 787 Program. The contract establishes a new performance based business arrangement that will drive improved

**EXPANSION AT SINGAPORE'S SELETAR AEROSPACE PARK**

**Airbus and Satair open new Singapore centre**

Airbus and Satair opened their first joint parts support and distribution facility, "Satair Airbus Singapore Centre" (SASC), located at the Seletar Aerospace Park in Singapore. The 16,700 m<sup>2</sup> facility will serve customers in the Asia-Pacific region, consolidating the supply chain operations of both Airbus and Satair. Building on both companies' existing presence, SASC has the capacity to almost triple the scope of parts handled. The centre will become the primary spare parts hub for Airbus in the region, providing 24/7 support to airlines and MROs, 365 days a year. The opening consummates the merger of Airbus' former Material and Logistics Management function with Satair – which has now become one common organization: 'Satair Group'.



The future looks bright for Singapore's Seletar Aerospace Park

Seletar Airport

**Bombardier inaugurates its first wholly-owned service centre in the Asia-Pacific region**

Bombardier Aerospace officially opened its new full-scale, company-owned service centre located at Seletar Airport in Singapore. The facility features 3,000m<sup>2</sup> of hangar space, 3,500m<sup>2</sup> of dedicated ramp, 3,500m<sup>2</sup> of workshop, warehouse and office space. The service centre includes a staff of over 40 employees and is equipped to perform scheduled and unscheduled maintenance, as well as modifications, avionics installations and aircraft on ground (AOG) support for Bombardier Learjet, Challenger and Global aircraft.

# ISTAT AMERICAS

16–18 March 2014 • San Diego Marriott Marquis & Marina • San Diego, California

---

**ISTAT Americas 2014** is the aviation industry's premier event for manufacturers, appraisers, financiers, lessors, airline personnel, fleet managers and remarketers.

To register or learn more about sponsorship opportunities, visit [www.istat.org/americas](http://www.istat.org/americas) for more information.



ISTAT 

International Society of Transport Aircraft Trading

operational performance for Alenia Aermacchi and the 787 program. Based on the market success and increased production rates of the 787 program, Boeing has confirmed orders for additional shipsets from Alenia Aermacchi within the contract period. This agreement will strengthen Alenia Aermacchi relationship with Boeing providing stability to the industrial and business performance of Alenia Aermacchi. Alenia Aermacchi is successfully providing the required performance to support program rate increases that hit rate 10. Alenia Aermacchi produces fuselage Section 44 and 46 for the 787 program in Grottaglie plant and horizontal stabilizers in Foggia. To date Alenia Aermacchi has delivered nearly 200 units.

### NORDAM Transparency Group ships 70,000th Airbus A320 cabin window

Just two years after beginning production, NORDAM announced shipment of the 70,000th cabin window assembly for the Airbus A320, one of the world's most widely-used aircraft. Since 2012, NORDAM has been the original equipment manufacturer (OEM) of cabin window assemblies for the A320 family, spanning the A318, A319, A320 and A321, as well as the ACJ business jet. Each assembly includes an acrylic outer and inner pane with a rubber-molded seal to hold the two panes together, and is integrated into the airframe during its manufacture.

### AJW Technique achieves ANAC Brazil Certification

AJW Technique achieved ANAC Brazil Certification. This endorsement by the Brazilian Civil Aviation Authority has been a priority for the AJW Group over recent months. "We have proactively targeted the Latin American region to offer an unparalleled breadth of service for an increasingly diverse number of operators," commented Gavin Simmonds, general manager at AJW Technique. "With new airports planned and in progress, as well as many new airlines operating under the 'low-cost carrier' business model, Brazil and the other South American countries are considered to be key areas of investment for AJW throughout 2014."

## FINANCIAL NEWS

### Air Canada reports record full year 2013 results

Air Canada reported record full year earnings before interest, taxes, depreciation, amortization and impairment, and aircraft rent ("EBITDAR") of \$1.433bn (or \$1.515bn including the impact of benefit plan amendments) compared to EBITDAR of \$1.320bn (or \$1.447bn including the impact of benefit plan amendments) in 2012, an increase of \$113m (or \$68m including the impact of benefit plan amendments). Operating income of \$619m

### Rolls-Royce 2013 full year results

Rolls-Royce's underlying revenue increased 27% to £15.5bn, including £2.6bn in revenue from Tognum. Excluding Tognum, the Group's revenue increased 6% to £12.9bn, with 7% growth in original equipment and 4% growth in services. In 2013, 47% of the Group's revenue was generated by the sale of aftermarket parts and services (52% in 2012). Underlying profit before tax increased 23% to £1.8bn, including a £180m increase from Tognum. Excluding Tognum, profit increased 11% to £1.5bn, reflecting volume growth, continued strong margins in Defence Aerospace and the restructured relationship with International Aero Engines. The order book increased 19%, to £71.6bn, up 16% excluding Tognum. Power Systems' order book of £1.9bn, reflects growth of 6%. Rolls-Royce received orders for engines to power 334 widebody aircraft; a significant year for Civil Aerospace. The order book increased in Civil Aerospace, Marine, Energy and Power Systems, but decreased in Defence Aerospace. The order intake in 2013 included new orders of £18.9bn in Civil Aerospace, £1.6bn in Defence Aerospace, £2.7bn in Marine, £1.1bn in Energy and £2.7bn in Power Systems. The regional composition is broadly unchanged, with Asia and the Middle East representing 49% of the total order book.

### Bombardier announces financial results for fourth quarter and fiscal year 2013

Bombardier Aerospace's revenues amounted to \$2.9bn for the three-month period ended December 31, 2013, compared to \$2.6bn for the corresponding period last fiscal year. For the year, revenues totalled \$9.4bn, compared to \$8.6bn last fiscal year. For the fourth quarter ended December 31, 2013, EBIT totalled \$93m, or 3.2% of revenues (\$94m, or 3.3%, before special items), compared to \$84m, or 3.2%, for the same quarter the previous year. EBIT before special items totalled \$388m or 4.1% of revenues for the year ended December 31, 2013, compared to \$367m, or 4.3% last fiscal year. For the year, EBIT was \$418m, or 4.5% of revenues, compared to \$390m, or 4.5%, last fiscal year. Free cash flow totalled \$87m for the fourth quarter ended December 31, 2013, compared to \$277m for the corresponding period last fiscal year. For the year ended December 31, 2013, free cash flow usage totalled \$1.2bn compared to a usage of \$867m for the last fiscal year. A total of 238 aircraft were delivered during the year ended December 31, 2013, compared to 233 for the last fiscal year, mostly in line with guidance.

### Garuda Indonesia ends 2013 with operating revenue of \$3.72bn

Garuda Indonesia's operating income decreased by 66.4%, amounting to \$56.4m, compared to the amount of \$168.1m received in 2012. Income for the period also declined from \$110.8m in 2012 to \$11.2m in 2013. Garuda Indonesia president & CEO, Emirsyah Satar, said that Garuda Indonesia's financial



Garuda reported lower revenues in 2013, in part due to the fall of the rupiah against the dollar *AirTeamImages*

performance in 2013 was influenced by rupiah's decline against the US dollar. Besides in 2013 Garuda also focused on funding new airplanes to support increasing operations-for either Garuda or Citilink. In 2013, Garuda Indonesia transported 25m passengers; an increase of 22.3% compared to the 20.4m passengers in 2012. Production capacity in 2013 also increased by 19.8%.

increased \$177m from 2012. On a GAAP basis, in 2013, net income was \$10m compared to a net loss of \$136m in 2012. On an adjusted basis, net income was \$340m, a record for Air Canada, compared to net income of \$55m in 2012, an improvement of \$285m.

### SuperJet International and PowerJet announce completion of first ever export credit financing for a Sukhoi Superjet 100

The first ever export credit financing package for the Sukhoi Superjet 100 was completed in December 2013 at delivery of the fourth out of twenty Sukhoi Superjet 100 (SSJ100) regional jets ordered by the Mexican airline Interjet. The aircraft was financed through a multilateral export credit guaranteed by Coface, SACE and VEB for the French, Italian and Russian partners, respectively. It represents one of the first financing transactions wholly guaranteed by Coface, the French export credit agency (ECA), for a regional aircraft. It is a first also for SACE acting as a direct guarantor for an aircraft with a 100% guarantee. At the same time, it is also a first for the Russian government, as VEB financed the Russian part in collaboration with the French and Italian export credit agencies and following OECD international rules for aircraft export credit financing.

### BNP Paribas (France) to be financing arranger for VietJetAir's aircraft order

At the Airshow in Singapore BNP Paribas and VietJetAir have reached a mutual agreement wherein BNP Paribas was assigned to be the adviser and financing arranger for VietJetAir's aircraft order. In which BNP Paribas will arrange financing for the first three aircrafts that VietJetAir will receive in 2014. The value of these three aircrafts is at \$270m. The two parties also agreed that BNP Paribas will be VietJetAir's strategic partner in other aircraft financing plans in the future. BNP Paribas is a leading international bank in aviation finance, serving 128 airlines and aircraft leasing firms. In 2012 and 2013, the bank helped consulting and arranged financing for 125 aircrafts and the amount of loans that BNP Paribas has arranged was \$7.4bn in 2012.

### Copa Holdings reports net income of \$113.9m for fourth quarter 2013

Copa Holdings reported net income of \$113.9m for 4Q13, as compared to net income of \$86.6m in 4Q12. Excluding special items, which for 4Q13 includes a non-cash impairment charge of \$31.2m on Intangible Assets booked in 2005 related to the acquisition of AeroRepublica (now Copa Colombia)

### Airbus Group to acquire Salzburg München Bank, establish company bank

Airbus Group entered into a Share Purchase Agreement with Raiffeisenverband Salzburg to acquire Salzburg München Bank AG, in order to provide additional financing options for the aeronautics and defence company. Salzburg München Bank, owned 100% by Raiffeisenverband Salzburg, is a small fully-licensed bank based in Munich serving small and medium enterprises (SMEs) and private clients. After closing, it will be renamed Airbus Group Bank and gradually be developed to provide finance solutions to support the Group's businesses. The transaction will not have any immediate effects on Salzburg München Bank's existing clients or business. "Acquiring Salzburg München Bank provides us with a good platform to launch our company bank project," said Airbus Group chief financial officer Harald Wilhelm. "In the coming years the whole Group can benefit through increased financing flexibility." The acquisition is subject to obtaining regulatory approvals, namely the Ownership Control Procedure ("Inhaberkontrollverordnung") with the German regulator (BaFin) and also from the German competition authority (BKartA). Airbus Group aims to close the deal as early as possible in 2014, subject to receiving all necessary regulatory approvals.

and a non-cash gain of \$2.6mn associated with the mark-to-market of fuel hedge contracts, Copa Holdings would have reported adjusted net income of \$142.5m compared to adjusted net income of \$89.3m 4Q12. Net income for full year 2013 reached \$428.2m, compared to \$326.5m for full year 2012. Excluding special items, which for 2013 includes a non-cash impairment charge of \$31.2m on Intangible Assets booked in 2005 related to the acquisition of AeroRepublica (now Copa Colombia), a \$13.9m loss related to the Venezuelan devaluation of February 2013, and a non-cash gain of \$5.2m associated with the mark-to-market of fuel hedge contracts, Copa Holdings would have reported an adjusted net income of \$468.1m, compared to adjusted net income of \$336.1 for full year 2012.

## MILITARY & DEFENSE

### Airbus Group's North American military aircraft unit expands repair facility at Mobile (Ala.) Regional Airport

The North American operations of Airbus Group's military aircraft unit opened a new 7,500-ft<sup>2</sup> component repair facility located at the Mobile (Ala.) Regional Airport. The expansion of the new component repair facility is yet another industrial resource to improve customer service for the company's medium and light multi-mission aircraft operators. The new services include hydraulic, avionics, composite and structural repairs, painting, component exchange and highly skilled engineering support. The company's Mobile operation

### Rolls-Royce and Lockheed Martin agree \$1bn deal to power future C-130J aircraft

Rolls-Royce completed a long-term agreement with Lockheed Martin worth up to \$1bn to deliver approximately 600 engines to power future C-130J Super Hercules aircraft. The agreement secures the Rolls-Royce AE 2100 as the engine of choice for all variants of the C-130J to 2025. The engine agreement will service US Government and International contract requirements between 2014 and 2018. The AE 2100 powers all C-130Js, while the Rolls-Royce T56 engines power the legacy C-130 fleet. The global C-130J fleet has surpassed 1 million flight hours, and Lockheed Martin recently announced its intent to obtain certification from the Federal Aviation Administration for a new civil variant – the LM-100J. The agreement will ensure the continued success of the versatile and proven C-130J military transport aircraft and its powerful, reliable and fuel-efficient turbo-prop engines. More than 300 of the four-engine transports have been delivered to customers in 16 countries, across 16 different mission types.



Rolls-Royce's AE 2100 will be the engine of choice for all C-130J variants (above) to  
US Air Force

was expanded in October 2009 to become Airbus Group's military aircraft maintenance, repair and overhaul delivery center in the U.S. This 30,000-ft<sup>2</sup>, 45-person facility provides American operators of the C212 and CN235 tactical transports with the capabilities of a certified FAA and European Aviation Safety Agency repair station as well as direct support from the aircraft manufacturer.

### Crane Brake Control System on Royal Netherlands Air Force C-130H

Crane's Mark IV Brake Control System upgrade has been selected by Royal Netherlands Air Force for the C-130H aircraft. The Brake Control System will be provided by Crane's foreign military distributor Aero Precision, a Greenwich AeroGroup company. The install will be completed by the end user, Royal Netherlands Air Force, at Eindhoven airbase. Crane's more advanced Mark IV Brake Control System is already being flown by all C-130J operators and is available through Aero Precision for upgrade to foreign military C-130 aircraft. Crane has provided this same advanced Mark IV Brake Control system to the United States Air Force as an upgrade to all C-130E/H aircraft.

### Boeing delivers 1st Peace Eagle aircraft to Turkish Armed Forces

Boeing is helping Turkey improve its self-defense capabilities with the recent delivery of the first Peace Eagle Airborne Early Warning and Control aircraft. The Turkish Armed Forces (TAF) now has advanced airborne surveillance and battle management capabilities, and can simultaneously track airborne and maritime targets, with the first of four AEW&C aircraft it has received from Boeing.

### UTC Aerospace Systems awarded Royal Australian Air Force contract for C-130 wheels and carbon brakes

UTC Aerospace Systems was awarded a contract to provide the Commonwealth of Australia upgraded wheels and brakes for their C-130 aircraft. The new UTC Aerospace Systems C-130 wheels and brakes feature the latest in technology and industry-leading innovation. The carbon brakes use proprietary DURACARB carbon heat sink material that provides eight times longer life than the current steel brake. The DURACARB carbon also provides significant performance improvement in brake cooling time that allows aircraft flight crews the ability to depart tactical areas more quickly after delivering cargo. The boltless wheels employ a lock-ring design, substantially lowering maintenance time and cost, in addition to reduced parts count, when compared to traditional bolted aircraft wheels.

...continued from page 1

Such is the demand for new commercial aircraft in the region that CAPA, the aviation research firm, estimates that Southeast Asia has as many orders for new passenger aircraft as it has planes in service - around 1,600 in each case.

Both Airbus and Boeing published their latest industry forecasts for Asia Pacific last week (see page 3 for more). Airbus predicts that over the next 20 years, the region will take delivery of some 11,000 new passenger and freight aircraft - 37% of the global total - which it valued at \$1.8 trillion.

Boeing's figures were even more optimistic: the airframer forecast a need for over 12,800 new aircraft worth \$1.9 trillion from now to 2032. Randy Tinseth, vice president of Boeing Commercial Airplanes said that over the next 20 years, "nearly half of the world's air traffic growth will be driven by travel to, from or within the region. The Asia Pacific fleet will nearly triple, from 5,090 airplanes in 2012 to 14,750 airplanes in 2032."

"The economy grows, incomes going up, and incomes going up means more people travel. And it's really pretty staggering. If you think about the Asia-Pacific region, if you look out the next five to ten years, each year 100 million people will travel in terms of growth."

This year's Singapore Airshow saw a record number of exhibitors - more than 1,000 companies from 47 countries, including more than 60 of the world's top 100 aerospace companies.

### Doric becomes Amedeo

As of February 11th, Doric Lease Corp has been rebranded as Amedeo. The rebranding initiative is part of a bigger vision to build a dedicated and actively managed widebody aircraft acquisition and leasing platform. The company announced an order for 20 A380s at the 50th Paris Airshow in June 2013 and will continue focusing on the widebody leasing sector, acting in a principal investment capacity with respect to both aircraft acquisitions and sale and leaseback transactions. Doric GmbH (Doric Group) is a separate entity and this rebranding does not affect the Doric Group.

### INFORMATION TECHNOLOGY

- The **Swiss-AS'** business year 2013 ended on a positive note with Cebu Pacific signing for AMOS. Cebu Pacific has selected AMOS to implement a proven tool that supports the maintenance management activities of their Technical department. The fact that AMOS is trusted by almost 130 customers and Swiss-AS is now represented in the Asia-Pacific region since April 2013 convinced Cebu Pacific to enter into a long term contract with Swiss-AS.

### PASSENGER TRAFFIC STATISTICS

- **American Airlines Group's** total traffic was up 3.8% versus January 2013, while total capacity was up 2.3% versus January 2013. Total passenger load factor was 80.3% for the month of January, up 1.2 points versus January 2013.
- **UAL's** January 2014 consolidated traffic decreased 1.6% and consolidated capacity decreased 2.8% versus January 2013. UAL's January 2014 consolidated load factor increased 1.0 point to 80.9% compared to January 2013.
- **Virgin America** reported its preliminary operational results for January 2014. The airline's January traffic rose 10.9% on 3.7% more capacity, compared with the same month in 2013. Load factor in January was 76.3%, up 5.0 points from the same month a year earlier.

### OTHER NEWS

The **Government of Canada** announced amendments to the **Canadian Aviation Regulations** which will set the groundwork for the introduction of the **Multi-crew Pilot Licence (MPL)**, extend the validity period of medical certificates associated with certain pilot licences and modify the requirements regarding credits of co-pilot flight time. Industry groups, including training organizations, pilot associations, unions and op-

erator associations, have widely supported these regulatory amendments, which bring Canada in line with international standards.

**MAINTag**, leading provider of aerospace flyable RFID chips and tags, introduced **FLYchip64**, with an innovative UHF high-memory design that takes aircraft asset management to a new level of efficiency and safety. FLYchip64, MAINTag's new UHF high-memory chip is fully compliant with ATA Spec 2000 and ISO18000-6C specifications for reliable and accurate aircraft parts marking and inventory. Retrofitting to create "smart" flyable parts is part of MAINTag's vision.

**The Agency for Science, Technology and Research (A\*STAR)** in Singapore inked a Memorandum of Understanding (MoU) with **Airbus** at the 3rd Aerospace Technology Leadership Forum on February 10th. The MoU signed between Airbus and A\*STAR will facilitate collaboration in areas of mutual interest, including data analytics. A\*STAR's extensive capabilities in data analytics solutions can be used for a wide array of applications, including more accurate prediction of flight arrival times to reduce passenger delays, which will translate to significant savings for the aviation industry.

Following the successful launch of AJW in China some years ago, **AJW Group** announces its intention to increase its investment in the region with expanded offices

## Recommended Events

+44 (0) 1342 324353  
 +44 (0) 7941 969401  
 everest@everestevents.co.uk
 

event management answers

**ISTAT Americas 2014**  
San Diego, California, USA, 16-18 March, 2014. (Event brochure)

**Managing Technical Aspects of a Leased Asset Maintenance Reserves Training School**  
Warsaw, Poland, 25 & 26 March, 2014. (Event brochures)

**EASA & Continuing Airworthiness Seminar Records Management - Technology Leaps and Best Practices**  
Dublin, Ireland, 29 & 30 April, 2014. (Event brochures)

**ISTAT Asia 2014**  
Ritz-Carlton, Hong Kong, 4-6 May, 2014. (Event brochure)

**Operating Lease Training Seminar Masterclass**  
Budapest, Hungary, 20-22 May, 2014. (Event brochure)

[Click here for more aviation events](#)

located in the heart of Shanghai's commercial sector. AJW's growing commercial relationships with a variety of operators across the region merit this expansion to larger premises as the organisation employs more people to build the Chinese team.

**INDUSTRY PEOPLE**

- Triumph Group released that **Jeffrey L. McRae** had been elected senior vice president and Chief Financial Officer in accordance with a previously announced transition. He succeeds M. David Kornblatt, who has assumed new duties with the company as Director of Corporate Development.
- Boeing named **Maureen Dougherty** as the president of Boeing Australia and South Pacific. She previously led one of the company's major defense projects, the U.S. Air Force KC-46A Tanker program. Dougherty succeeds Ian Thomas, who held the job from 2009. Thomas was named president of Boeing China, based in Beijing, last month. Both appointments will be effective by the end of March.
- The Supervisory Board of Deutsche Lufthansa AG appointed **Carsten Spohr** as the future chairman of the Executive Board & chief executive officer during its last meeting. Spohr, who currently oversees the business segment Lufthansa Passenger Airlines in his capacity as board member, will assume his new role effective 1 May 2014.
- Delta Air Lines' (DAL) Board of Directors approved the appointment of **Wayne Gilbert "Gil" West** to executive vice president and chief operating officer effective March 1, 2014. West will succeed Stephen E. Gorman who will retire after leading Delta's operations divisions since 2007.



Carsten Spohr  
Lufthansa

**AviTrader Publications Corp.**  
9500 Aquila Road  
Richmond, BC  
Canada V7A 3P9

**Publisher**  
Peter Jorssen  
Tel: +1 604 318 5207

**Editor**  
Catherine Davies  
editor@avitrader.com  
Tel: +44 (0) 7772 896 280

**Advertising Inquiries and Customer Support**  
Jenny Falk  
jenny.falk@avitrader.com  
Tel: + 49 (0) 8761 346 007

**For inquiries and comments, please email:**  
editor@avitrader.com



### Commercial Jet Aircraft

| Aircraft Type | Company                      | Engine      | MSN   | Year | Available | Sale / Lease        | Contact                   | Email                                | Phone             |
|---------------|------------------------------|-------------|-------|------|-----------|---------------------|---------------------------|--------------------------------------|-------------------|
| A300B4-200F   | Rising Sun Aviation          | None        | 84    | 1979 | Now       | Sale                | Fred van Acker            | f.vanacker@risingsunaviation.com     | +1 214-906-5635   |
| 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   |
| A320-200      | ORIX Aviation                | V2527-A5    | 1661  | 2002 | Q1/2015   | Lease               | Donal McConnell           | donal.mcconnell@orix.ie              | +353 863 687 184  |
| A320-200      | ORIX Aviation                | CFM56-5A1   | 378   | 1992 | Q1/2015   | Sale                | Donal McConnell           | donal.mcconnell@orix.ie              | +353 863 687 184  |
| A320-200      | ORIX Aviation                | CFM56-5B6/3 | 3831  | 2009 | Q2/2015   | Lease               | Donal McConnell           | donal.mcconnell@orix.ie              | +353 863 687 184  |
| (2) A320-211  | PSG Turbines LLC             |             |       |      | Now       | Sale                | Karl Drusch               | kdrusch@psgjets.com                  | +1-817-296-2705   |
| A320-231      | Jet Midwest Inc.             | V2500-A1    | 0230  | 1991 | Now       | Sale / Lease        | Kevin Lee / Cathy Liu     | cathy.liu@jetmidwest.com             | +1 310 652 0296   |
| A330-200      | Amentum Capital              | PW4168A     | 970   | 2008 | Q1/2015   | Lease               | Noel Healy                | marketing@amentum-capital.com        | +353 1 639 8111   |
| A330-200      | Amentum Capital              | PW4168A     | 979   | 2009 | Q1/2015   | Lease               | Noel Healy                | marketing@amentum-capital.com        | +353 1 639 8111   |
| B737-2H4      | Jet Midwest                  | JT8D-9A     | 22062 | 1980 | Now       | Sale / Lease        | Kevin Lee / Cathy Liu     | cathy.liu@jetmidwest.com             | +1 310 652 0296   |
| B737-300      | AerSale                      | CFM56-3B1   | 23440 | 1986 | Now       | Sale / Lease        | Craig Wright              | craig.wright@aersale.com             | +1 (305) 764 3238 |
| B737-300      | AerSale                      | CFM56-3B1   | 23441 | 1986 | Now       | Sale / Lease        | Craig Wright              | craig.wright@aersale.com             | +1 (305) 764 3238 |
| 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      | ORIX Aviation                | CFM56-3C1   | 24910 | 1991 | Jun 2014  | Sale                | Donal McConnell           | donal.mcconnell@orix.ie              | +353 863 687 184  |
| 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   |
| B737-300QC    | Cloud Investment Partners    | CFM56-3B2   | 24021 | 1988 | Now       | Sale / Lease        | David Weiss               | david.weiss@CloudLLLPC.com           | +1 561-266-0845   |
| 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      | ORIX Aviation                | CFM56-3C1   | 28702 | 1998 | Q1/2014   | Sale / Lease        | Donal McConnell           | donal.mcconnell@orix.ie              | +353 863 687 184  |
| B737-400      | AerSale                      | CFM56-3C1   | 25417 | 1991 | Now       | Sale / Lease        | Craig Wright              | craig.wright@aersale.com             | +1 (305) 764 3238 |
| B737-400      | Safair Operations            | Combi       |       |      | Now       | ACMI/Wet lease      | 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      | ORIX Aviation                | CFM56-3C1   | 24788 | 1990 | Q2/2014   | Sale                | Donal McConnell           | donal.mcconnell@orix.ie              | +353 863 687 184  |
| B737-500      | Rising Sun Aviation          | None        | 25038 | 1990 | Now       | Sale                | Fred van Acker            | f.vanacker@risingsunaviation.com     | +1 214-906-5635   |
| 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                | CFM56-7B26  | 35090 | 2006 | Q4/2015   | Lease               | Donal McConnell           | donal.mcconnell@orix.ie              | +353 863 687 184  |
| B737-800      | ORIX Aviation                | CFM56-7B24  | 34181 | 2006 | Q1/2015   | Lease               | Donal McConnell           | donal.mcconnell@orix.ie              | +353 863 687 184  |
| B737-800      | ORIX Aviation                | CFM56-7B26  | 35072 | 2007 | Q2/2015   | Lease               | Donal McConnell           | donal.mcconnell@orix.ie              | +353 863 687 184  |
| B737-800      | ORIX Aviation                | CFM56-7B24  | 34180 | 2005 | Q4/2014   | Lease               | Donal McConnell           | donal.mcconnell@orix.ie              | +353 863 687 184  |
| B747-400      | GA Telesis                   | PW4056      | 28754 | 1998 | Now       | Sale / Lease        | Stefanie Jung             | sjung@gatelesis.com                  | +1 954-958-1321   |
| B747-400ERF   | Amentum Capital              | CF6-80C2B5F | 37303 | 2009 | Jul 2014  | Sale / Lease        | Noel Healy                | marketing@amentum-capital.com        | +353 1 639 8111   |
| B747-400ERF   | Amentum Capital              | CF6-80C2B5F | 35172 | 2007 | Now       | Sale / Lease        | Noel Healy                | marketing@amentum-capital.com        | +353 1 639 8111   |
| B747-400ERF   | Amentum Capital              | CF6-80C2B5F | 35170 | 2006 | Now       | Sale / Lease        | Noel Healy                | marketing@amentum-capital.com        | +353 1 639 8111   |
| B757-200      | World Star Aviation Services | RB211-535E4 | 24544 | 1990 | Now       | Sale / Lease        | Sean O Connor             | Soconnor@worldstaraviation.com       | +1 415-956-9456   |
| 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   |
| B757-200F     | AerSale                      | RB211-535E4 | 23767 | 1987 | Now       | Sale / Lease        | Craig Wright              | craig.wright@aersale.com             | +1 (305) 764 3238 |
| B767-200ER    | Jet Midwest Inc.             | PW4056      | 24007 | 1988 | Now       | Sale / Lease        | Kevin Lee / Cathy Liu     | cathy.liu@jetmidwest.com             | +1 310 652 0296   |
| B767-200ER    | Jet Midwest Inc.             | JT9D-7R4D   | 24325 | 1989 | Now       | Sale / Lease        | Kevin Lee / Cathy Liu     | cathy.liu@jetmidwest.com             | +1 310 652 0296   |
| B767-200ER    | Jet Midwest Inc.             | JT9D-7R4D   | 24145 | 1988 | Now       | Sale / Lease        | Kevin Lee / Cathy Liu     | cathy.liu@jetmidwest.com             | +1 310 652 0296   |
| 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   |
| B767-222      | Jet Asia Always Co. Ltd.     | JT9D-7R4D   | 21868 |      | Now       | ACMI, Wet L.        | Kevin Lee                 | klee@flyjetasia.com                  | +1 310 944 0327   |
| B767-246      | Jet Asia Always Co. Ltd.     | JT9D-7R4D   | 23214 |      | Now       | ACMI, Wet L.        | Kevin Lee                 | klee@flyjetasia.com                  | +1 310 944 0327   |
| B767-300ER    | Jet Midwest Inc.             | PW4060      | 25287 | 1992 | Now       | Sale / Lease        | Kevin Lee / Cathy Liu     | kevin.lee@jetmidwest.com             | +1 310 652 0296   |
| B767-300ER    | ORIX Aviation                | PW4060      | 25285 |      | Q1/2015   | Lease               | Donal McConnell           | donal.mcconnell@orix.ie              | +353 863 687 184  |
| 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   |

### Commercial Jet Aircraft (cont.)

| Aircraft Type | Company          | Engine    | MSN   | Year | Available | Sale / Lease | Contact               | Email                      | Phone             |
|---------------|------------------|-----------|-------|------|-----------|--------------|-----------------------|----------------------------|-------------------|
| MD82          | Jet Midwest Inc. | JT8D-217C | 49988 | 1990 | Now       | Sale / Lease | Kevin Lee / Cathy Liu | cathy.liu@jetmidwest.com   | +1 310 652 0296   |
| MD82          | Jet Midwest Inc. | JT8D-219  | 49325 | 1986 | Now       | Sale / Lease | Kevin Lee / Cathy Liu | cathy.liu@jetmidwest.com   | +1 310 652 0296   |
| MD82          | Jet Midwest Inc. | JT8D-217C | 49286 | 1985 | Now       | Sale / Lease | Kevin Lee / Cathy Liu | cathy.liu@jetmidwest.com   | +1 310 652 0296   |
| MD82          | Jet Midwest Inc. | JT8D-217C | 49287 | 1985 | Now       | Sale / Lease | Kevin Lee / Cathy Liu | cathy.liu@jetmidwest.com   | +1 310 652 0296   |
| MD82          | Jet Midwest Inc. | JT8D-217C | 49342 | 1987 | Now       | Sale / Lease | Kevin Lee / Cathy Liu | cathy.liu@jetmidwest.com   | +1 310 652 0296   |
| MD82          | Jet Midwest Inc. | JT8D-217C | 49988 | 1990 | Now       | Sale / Lease | Kevin Lee / Cathy Liu | cathy.liu@jetmidwest.com   | +1 310 652 0296   |
| MD83          | Jet Midwest Inc. | JT8D-219  | 53189 | 1995 | Now       | Sale / Lease | Kevin Lee / Cathy Liu | cathy.liu@jetmidwest.com   | +1 310 652 0296   |
| MD83          | Jet Midwest Inc. | JT8D-219  | 49663 | 1987 | Now       | Sale / Lease | Kevin Lee / Cathy Liu | cathy.liu@jetmidwest.com   | +1 310 652 0296   |
| MD82 (+5)     | GA Telesis       | JT8D-200  | 53156 | 1991 | Now       | Sale         | Harris Koutounidis    | hkoutounidis@gatelesis.com | +1-954-676-3111   |
| MD90-30       | AerSale          | V2528-D5  | 53493 | 1998 | Now       | Sale / Lease | Shane O'Connell       | shane.oconnell@aersale.com | +353 (87) 0638243 |
| MD90-30       | AerSale          | V2528-D5  | 53497 | 1998 | Now       | Sale / Lease | Shane O'Connell       | shane.oconnell@aersale.com | +353 (87) 0638243 |
| MD90-30       | AerSale          | V2528-D5  | 53506 | 1998 | Now       | Sale / Lease | Aidan Harrison        | aidan.harrison@aersale.com | +353 (86) 3890787 |

### Regional Jet / Turboprop Aircraft

| Aircraft Type | Company            | Engine   | MSN    | Year | Available | Sale / Lease | Contact                   | Email                         | Phone           |
|---------------|--------------------|----------|--------|------|-----------|--------------|---------------------------|-------------------------------|-----------------|
| CRJ100ER      | GA Telesis         | CF34-3A1 | 7127   | 1996 | Now       | Sale / Lease | Harris Koutounidis        | hkoutounidis@gatelesis.com    | +1 954 676 3111 |
| CRJ100ER      | GA Telesis         | CF34-3A1 | 7131   | 1996 | Now       | Sale / Lease | Harris Koutounidis        | hkoutounidis@gatelesis.com    | +1 954 676 3111 |
| CRJ100ER      | GA Telesis         | CF34-3A1 | 7134   | 1996 | Now       | Sale / Lease | Harris Koutounidis        | hkoutounidis@gatelesis.com    | +1 954 676 3111 |
| CRJ700ER      | 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 |
| 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 |



### Commerical Engines

| Engine Type                       | Sale / Lease              | Company                      | Contact                  | Email                                | Phone             |
|-----------------------------------|---------------------------|------------------------------|--------------------------|--------------------------------------|-------------------|
| Multiple Engines GE / CFM / RB211 | Now - Sale / Lease        | GECAS Engine Leasing         | Sherry Riley             | engine.leasing@gecas.com             | +1(513)782-4272   |
| <b>AE3007 Engines</b>             |                           |                              |                          |                                      |                   |
| (2) AE3007A1                      | Now - Sale / Lease        | Engine Lease Finance         | Ciaran McGlynn           | ciaran.mcglynn@elfc.com              | +353 61 291729    |
| (2) AE3007A1                      | Now - Sale / Lease        | Magellan Group               | Bill Poly / Ray Marquess | ray.marquess@magellangroup.net       | +1 (704) 504-9204 |
| <b>CF34 Engines</b>               |                           |                              |                          |                                      |                   |
| (1) CF34-8E5                      | Now - Lease               | Lufthansa Technik AERO Alzey | Kai Ebach                | k.ebach@lhaero.com                   | +49-6731-497-368  |
| (2) CF34-10E5                     |                           |                              |                          |                                      |                   |
| (2) CF34-3A1                      | Now - Sale                | GA Telesis                   | Harris Koutounidis       | hkoutounidis@gatelesis.com           | +1-954-676-3111   |
| (1) CF34-3B1                      | Now - Sale / Lease        | GA Telesis                   | Eddo Weijer              | eweijer@gatelesis.com                | +1-954-676-3111   |
| (2) CF34-3A1/3B1                  | Now - Sale / Lease        | Magellan Group               | Bill Poly / Ray Marquess | ray.marquess@magellangroup.net       | +1 (704) 504-9204 |
| (1) CF34-3B1                      | Now - Sale/Lease/Exch.    | Willis Lease                 | Dave Desaulniers         | desaulniers@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 |
| <b>CF6 Engines</b>                |                           |                              |                          |                                      |                   |
| (1) CF6-80C2A5                    | Mar 14 - Sale/Lease/Exch. | Apollo Aviation Group        | Erik Castillo            | erikc@apollo.aero                    | +1 (305) 579-2340 |
| (4) CF6-80C2A2                    | Now - Sale/Lease/Exch.    |                              |                          |                                      |                   |
| (2) CF6-80C2B4                    | Now - Sale/Lease/Exch.    |                              |                          |                                      |                   |
| (1) CF6-80C2B1F                   | Now - Sale/Lease/Exch.    |                              |                          |                                      |                   |
| (1) CF6-80C2B1F                   | May 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   |
| CF6-50E2 (multiple)               | Now - Sale / Lease        | Commercial Aircraft Services | Brian Cooper             | brian@casi.aero                      | +1 208-899-1915   |
| (1) CF6-80C2B4                    | Now - Sale / Lease        | CTS Engines                  | Jim Green                | jgreen@ctsengines.com                | +1 954 889 0639   |
| (1) CF6-80C2B6                    | Now - Sale / Lease        |                              | Jim Green                | jgreen@ctsengines.com                | +1 954 889 0639   |

### Commerical Engines (cont.)

| Engine Type                | Sale / Lease              | Company                           | Contact               | Email                            | Phone               |
|----------------------------|---------------------------|-----------------------------------|-----------------------|----------------------------------|---------------------|
| <b>CF6 Engines (cont.)</b> |                           |                                   |                       |                                  |                     |
| (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                       | Todd Power            | tpower@aeroturbine.com           | +1 214-240-1145     |
| (1) CF6-80C2B1F            | Now - Lease               |                                   |                       |                                  |                     |
| (1) CF6-80C2D1F            | Now - Lease               |                                   |                       |                                  |                     |
| (1) CF6-80C2B6F            | Now - Sale/Lease/Exch.    | AerSale, Inc.                     | Tom McFarland         | tom.mcfarland@aersale.com        | +1 305-764-3208     |
| (1) CF6-80C2B4             | Now - Sale / Lease        | GA Telesis                        | Eddo Weijer           | eweijer@gatelesis.com            | +1-954-676-3111     |
| (1) CF6-80C2B1F            | Now - Lease               | Engine Lease Finance              | Joe Hussar            | joseph.hussar@elfc.com           | +1 (617)828-3569    |
| <b>CFM56 Engines</b>       |                           |                                   |                       |                                  |                     |
| (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        |                                   |                       |                                  |                     |
| (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) CFM56-3C1              | Now - Sale                | Rising Sun Aviation               | Fred van Acker        | f.vanacker@risingsunaviation.com | +1 214-906-5635     |
| (1) CFM56-3C1              | Now - Sale                |                                   | Mike Visconti         | mike@avvenireservices.comn       | +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.                     | Tom McFarland         | tom.mcfarland@aersale.com        | +1 305-764-3208     |
| (1) CFM56-3B1              | Now - Lease               |                                   |                       |                                  |                     |
| (2) CFM56-3C1              | Now - Lease               |                                   |                       |                                  |                     |
| (3) CFM56-5C4              | Now - Sale / Lease        | Magellan Group                    | Bill Polyi            | bill.polyi@magellangroup.net     | +1 (704) 504-9204   |
| (4) CFM56-3B1/B2/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 Pheilan          | engines@ltai.ie                  | +353-87-2786738     |
| (1) CFM56-3B2              | Now - Sale/Lease/Exch.    |                                   |                       |                                  |                     |
| (1) CFM56-5B4P             | Now - Lease               | Castlelake                        | Rich Gauvin           | rich.gauvin@castlelake.com       | +1 612 851 3022     |
| (1) CFM56-7B               | Now - Lease               |                                   |                       |                                  |                     |
| (2) CFM56-3B2              | Now - Sale / Lease        | GA Telesis                        | Eddo Weijer           | eweijer@gatelesis.com            | +1-954-676-3111     |
| 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) CFM56-5A3              | Now - Lease               | Willis Lease                      | Ann Lee               | alee@willislease.com             | +1 (415) 408 4770   |
| (1) CFM56-7B24 (Non-TI)    | Now - Lease               |                                   |                       |                                  |                     |
| (2) CFM56-5B4/3            | Now - Lease               |                                   |                       |                                  |                     |
| (2) CFM56-5C4/P            | Now - Lease               |                                   |                       |                                  |                     |
| (1) CFM56-7B24/3           | Now - Lease               |                                   |                       |                                  |                     |
| (4) CFM56-3B2              | Now - Sale / Exchange     | AeroTurbine                       | Todd Power            | tpower@aeroturbine.com           | +1 214-240-1145     |
| (1) CFM56-3B1              | Now - Lease               |                                   |                       |                                  |                     |
| (4) CFM56-3C1              | Now - Lease               |                                   |                       |                                  |                     |
| (1) CFM56-5C4              | Mar 14 - Sale/Lease/Exch. | Apollo Aviation Group             | Erik Castillo         | erikk@apollo.aero                | +1 (305) 579-2340   |
| (1) CFM56-7B20/2           | Now - Sale/Lease/Exch.    |                                   |                       |                                  |                     |
| (2) CFM56-3B2              | Now - Sale/Lease/Exch.    |                                   |                       |                                  |                     |
| (3) CFM56-5C3/F            | Now - Sale/Lease/Exch.    |                                   |                       |                                  |                     |
| (1) CFM56-5C4              | Now - Lease               | ORIX Aviation                     | Donal McConnell       | donal.mcconnell@orix.ie          | +353 863 687 184    |
| (3) CFM56-3B2              | Now - Sale / Lease        |                                   |                       |                                  |                     |
| (1) CFM56-3C1              | Now - Sale/Lease/Exch.    | TES Aviation Group                | Lee Whitehurst        | lee.whitehurst@tes-uk.com        | + 44 (0) 7760884250 |
| (1) CFM56-3B1              | Now - Sale/Lease/Exch.    |                                   |                       |                                  |                     |
| (1) CFM56-3C1              | Now - Sale/Lease/Exch     | PSG Turbines LLC                  | Karl Drusch           | kdrusch@psgjets.com              | +1-817-296-2705     |
| (4) CFM56-5A1/F            | Now - Sale/Lease/Exch     |                                   |                       |                                  |                     |
| (2) CFM56-5A               | Now - Sale                | GECAS Engine Leasing              | Sherry Riley          | engine.leasing@gecas.com         | +1(513)782-4272     |
| <b>JT8D Engines</b>        |                           |                                   |                       |                                  |                     |
| (1) JT8D-219               | Now - Sale/Lease/Exch     | PSG Turbines LLC                  | Karl Drusch           | kdrusch@psgjets.com              | +1-817-296-2705     |
| (1) JT8D-15A               | Mar 14 - Sale             | Rising Sun Aviation               | Fred van Acker        | f.vanacker@risingsunaviation.com | +1 214-906-5635     |
| (1) JT8D-9A                | Now - Sale                |                                   |                       |                                  |                     |
| (1) JT8D-217C/219          | Now - Sale / Lease        | Azure Resources                   | Jeff Young            | jeff@azureres.com                | +1-954-249-7935     |
| (several) JT8D-200         | Now - Sale / Lease        | 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     |
| <b>JT9D Engines</b>        |                           |                                   |                       |                                  |                     |
| (2) JT9D-7R4D/E            | Now - Sale                | Aero Controls                     | John Titus            | jtitus@aerocontrols.com          | +1 253 269-3000     |
| (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        |                                   |                       |                                  |                     |

## AIRCRAFT AND ENGINE MARKETPLACE

### Commerical Engines (cont.)

| Engine Type  | Sale / Lease           | Company                        | Contact                    | Email  | Phone                                  |
|--|------------------------|--------------------------------|----------------------------|--|--|
| <b>PW Small Engines</b>                                |                        |                                |                            |  |  |
| PW121, PW123, PW124B, PW125B,<br>PW127E/F/M and PW150A | Now - Sale / Lease     | Magellan Group                 | Bill Polyi<br>Ray Marquess | bill.polyi@magellangroup.net<br>ray.marquess@magellangroup.net | +1 (704) 504-9204<br>+1 (704) 504-9204 |
| 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            |                                |                            |  |  |
| (1) PW150A   | Now - Sale             | GA Telesis                     | Eddo Weijer                | eweijer@gatelesis.com  | +1-954-676-3111                        |
| (3) PW121 (ATR)  | Now - Sale/Lease/Exch. | Willis Lease                   | Dave Desaulniers           | delaulniers@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) PW121  | Now - Sale / Lease     | Royal Aero                     | Frank Rustmeier            | frank@royalaero.com  | +49 (0)8025 99360                      |
| <b>PW2000 Engines</b>                                  |                        |                                |                            |  |  |
| (1) PW2037   | Now - Sale / Lease     | Fortress Investment Group      | Thomas Garbaccio           | Aviation@fortress.com  | +1 212-497-2917                        |
| (1) PW2040   | Now - Sale / Lease     |                                |                            |  |  |
| <b>PW4000 Engines</b>                                  |                        |                                |                            |  |  |
| (3) PW4056-1   | Now - Sale/Lease/Exch. | GA Telesis                     | Eddo Weijer                | eweijer@gatelesis.com  | +1-954-676-3111                        |
| (1) PW4060C-1C   | Now - Lease            | IAI                            | Michal Bulvik              | mbulvik@iai.co.il  | +972-3-9353612                         |
| (4) PW4056/60/62                                       | Now - Sale / Lease     | Magellan Group                 | Bill Polyi / 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) PW4056-1C  | Now - Lease            | AeroTurbine                    | Todd Power                 | tpower@aeroturbine.com   | +1 214-240-1145                        |
| (1) PW4056-3   | Now - Lease            |                                |                            |  |  |
| (1) PW4056-1   | Now - Lease            |                                |                            |  |  |
| (1) PW4060-1   | Now - Lease            |                                |                            |  |  |
| (2) PW4056-3   | Now - Sale / Lease     | AerSale, Inc.                  | Tom McFarland              | tom.mcfarland@aersale.com                                      | +1 305-764-3208                        |
| (1) PW4056-1C  | Now - Sale/Lease/Exch. |                                |                            |  |  |
| (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            |                                |                            |  |  |
| (1) PW4168A  | Now - Lease            |                                |                            |  |  |
| (1) PW4168A  | Now - Sale / Lease     | Engine Lease Finance           | Joe Hussar                 | joseph.hussar@elfc.com   | +1 (617)828-3569                       |
| <b>RB211 Engines</b>                                   |                        |                                |                            |  |  |
| (1) RB211-535E4  | Now - Sale/Lease       | Rolls-Royce & Partners Finance | Bobby Janagan              | bobby.janagan@rolls-royce.com                                  | +44 20 7227 9078                       |
| (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                        |
| (2) RB211-535E4 /12B                                   | Now - Sale/Lease/Exch. | TES Aviation Group             | Lee Whitehurst             | lee.whitehurst@tes-uk.com                                      | + 44 (0) 7760 884250                   |
| <b>Trent Engines</b>                                   |                        |                                |                            |  |  |
| (2) Trent 800  | Now - Sale / Lease     | GA Telesis                     | Eddo Weijer                | eweijer@gatelesis.com  | +1-954-676-3111                        |
| (1) Trent 884-17                                       | Now - Sale/Lease/Exch. | Apollo Aviation Group          | Erik Castillo              | erikk@apollo.aero  | +1 (305) 579-2340                      |
| <b>Tay Engines</b>                                     |                        |                                |                            |  |  |
| (multiple) Tay 650-15                                  | Now - Sale / Lease     | Jet Midwest                    | Kevin Lee / Cathy Liu      | cathy.liu@jetmidwest.com                                       | +1 310 652 0296                        |
| <b>V2500 Engines</b>                                   |                        |                                |                            |  |  |
| (1) V2527-A5   | Now - Lease            | Willis Lease                   | Ann Lee                    | alee@willislease.com   | +1 (415) 408 4769                      |
| (1) V2500-A1   | Now - Sale / Lease     | ORIX Aviation                  | Donal McConnell            | donal.mcconnell@orix.ie  | +353 863 687 184                       |
| (1) V2500-A5   | Now - Sale / Exchange  | Killick Aerospace              | Patrick Brown              | pbrown@killickaerospace.com                                    | +1 469-644-8415                        |
| (1) V2500-A5   | Now - Sale / Exchange  | Killick Aerospace              | Bjorn V.                   | bjorn@killickaerospace.com                                     | +32 (477) 31 78 48                     |
| V2527-A5   | Now - Sale/Lease/Exch. | AeroTurbine                    | Todd Power                 | tpower@aeroturbine.com   | +1 214-240-1145                        |
| V2527-A5   | Now - Lease            |                                |                            |  |  |
| (1) V2527-A5   | Now - Lease            | Engine Lease Finance           | Joe Hussar                 | joseph.hussar@elfc.com   | +1 617 828-3569                        |
| (1) V2533-A5   | Now - Sale / 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            |                                |                            |  |  |

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

| Description  | Company                 | Contact               | Email                      | Phone             |
|--|-------------------------|-----------------------|----------------------------|-------------------|
| NEW QEC for V2500  | Willis Lease            | Ann Lee               | alee@willislease.com       | +1 (415) 408 4769 |
| APU GTCP 131-9B  | Willis Lease            | Ann Lee               | alee@willislease.com       | +1 (415) 408 4769 |
| APU 3800298-1-2 (B767)   | Jet Midwest             | Kevin Lee / Cathy Liu | cathy.liu@jetmidwest.com   | +1 310 652 0296   |
| GTCP131-9A (P/N 3800708-1)   | Werner Aero Services    | Christopher Farrell   | cfarrell@werneraero.com    | +1 201-661-6819   |
| 1 V2500 QEC kit, p/n 745k9001-46                                   | Tradewinds Engine Serv. | Brad Pleimann         | bpleimann@tesllc.aero      | +1 954 421 2510   |
| CFM56-7B Evol. LPT mod. Ass. 338-092-319-0                         |                         |                       |                            |                   |
| CFM56-7B and -5B engine stands for lease                           |                         |                       |                            |                   |
| CFM56-3 Serv Modules (Fan/Booster/HPT/LPT/ AD compliant Gearboxes) | LHT Airmotive Ireland   | Alan Phelan           | engines@lhai.ie            | +353-87-2786738   |
| 737-800 NOSE LANDING GEAR PN 162A1100-5, OH - Now Sale             | Reliance Aircraft       | Terry Hix             | thix@relianceaircraft.com  | +1 512-439-6988   |
| (1) PW901A   | LHT AERO Alzey          | Kai Ebach             | k.ebach@lhaero.com         | +49-6731-497-368  |
| GTCP131-9B, PW901, (2) GTCP36-300,                                 | Aeroturbine             | Brianne Van Abeele    | bvanabeele@aeroturbine.com | +1 972-892-0213   |
| GTCP131-9A, (2) RE220RJ, GTCP331-350C,<br>APS3200                  |                         |                       |                            |                   |

### Wanted

| Description  | Company     | Contact               | Email                    | Phone           |
|--|-------------|-----------------------|--------------------------|-----------------|
| (1) 737-400 airframe wanted for tear-down purpose, any year of manufacture | Jet Midwest | Kevin Lee / Cathy Liu | kevin.lee@jetmidwest.com | +1 310 652 0296 |