

## Weekly Aviation Headline News

### WORLD NEWS

#### Silk Way West teams up with JAL Cargo

Silk Way West Airlines and JAL CARGO have agreed to start a co-operation regarding cargo services, which does include the use of Silk Way West Airlines' capacities by JAL CARGO. As JAL CARGO has stopped their own full freighter operations, the use of Silk Way West Airlines' capacities on scheduled routes out of Europe via Baku into Japan and vice versa will create an interesting option for both carriers. At the same time, Silk Way West Airlines will boost its weekly operation between Baku and Europe to offer sequenced connections to and from Japan via Baku.

#### Air Nostrum and CityJet join forces

Air Nostrum and CityJet have announced that they have signed a Heads of Terms with the aim to bring about closer co-operation between the two airlines under the umbrella of a new holding company. Such a development will be subject to obtaining the requisite regulatory approvals and the preparation of the relevant filings has begun. The coming together of these two regional airlines would see the creation of the largest pan-European regional airline group.

#### CFM scores big at Farnborough

CFM International announced orders and commitments for just over 858 LEAP and CFM56 engines at the 2018 Farnborough Airshow, in addition to long-term services agreements, at a total value of \$15.7 billion U.S. list price. "It has been a great year so far for CFM," said Gaël Méheust, president and CEO of CFM International. "We just delivered the 1,000th LEAP engine, the fleet has logged more than 1.5 million flight hours, and we have the highest daily utilisation in this thrust class."



FIA18 proved successful for the OEMs.

Photo: Airbus

### Farnborough Airshow review

#### Order bonanza grips the UK Airshow

The 2018 edition of Farnborough took place over sunny skies in Hampshire, England and with a backdrop of a generally healthy air transport industry, the orders for new airplanes and other service contracts kept rolling in.

Boeing announced more than \$100 billion in total orders and commitments, including \$98.4 billion for commercial airplanes at list prices and \$2.1 billion in commercial and defence services orders and agreements.

Notable from Boeing's order book, 75 additional Boeing 737 MAX aircraft for Jet Airways, Hawaiian Airlines

finalised orders for up to 20 787s, Vietjet went for an additional 100 737 MAXs. The agreement, which includes 80 737 MAX 10s and 20 737

tar Airways also went for five of the same type. These were just a handful of the total orders generated by Boeing.

**"At the top end, our A380 is now opening new opportunities for the second-hand market."**

*Eric Schulz, Airbus CCO*

MAX 8s, is valued at more than \$12.7 billion at current list prices.

Other orders included Volga-Dnepr Group and CargoLogicHolding announcing sweeping freighter packages covering 777 Freighters and 747-8 Freighters. DHL Express announced purchase of 14 Boeing 777Fs and Qa-

airbus announced strong commercial aircraft business during the show with successes across its broad product portfolio – including the new A220 and A330neo families. During the show the company won further new business for 431 aircraft (93 firm orders and 338 MoUs). These 431 commitments comprise 60 A220-300s, 304 A320 Family aircraft, 42 A330neos and 25 A350 XWBs. Notably, the 42 commitments for the new A330neo includes

*Continued on page 3*



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both the -800 and -900 models – a strong endorsement at the show for this Family.

Eric Schulz, Airbus Chief Commercial Officer said: “Our year to date and our end of show commitments confirm the strong market appetite for all our leading aircraft product families, from our newest member, the 100-150 seater A220, complemented by our A320 Family up to 240 seats, seamlessly connected to our widebody family with the all-new A330neo and A350 XWB which span from 250-370 seats. At the top end, our A380 is now opening new opportunities for the second-hand market”. Potentially, indicating the poor sales for the super jumbo.

During the show, Embraer also announced firm orders for 25 E175 jets to United Airlines and for 10 E195-E2 jets to Kuwait’s Wataniya Airways to be included in the 3Q18 backlog. The other announcements during the week included Republic Airways for 200 E175sto be incorporated in the Embraer’s backlog by the end of 2018. In total, Embraer generated an out-



Embraer scooped up orders worth \$15bn

Photo: ASDS

standing 300 orders during the show worth some \$15.3 billion.

There were fewer but notable orders also from ATR and Bombardier.

## AIRCRAFT & ENGINE NEWS

### Airbus announces contracts for over 200 aircraft on the first day of Farnborough Air Show

Airbus has announced the signature of a Memorandum of Understanding with a leading global lessor for 80 A320neo Family aircraft. Engine selection will be made at a later date.

An affiliate of Macquarie AirFinance Group, a wholly owned subsidiary of Macquarie Group, listed in Australia, has placed a firm order for 20 A320neo aircraft to add to its existing portfolio of 119 Airbus aircraft (110 A320 Family and nine A330s). This first-time order for the A320neo makes Macquarie AirFinance Group the newest customer for the type. Engine selection will be made at a later date.

Goshawk Aviation, the 50/50 joint venture between Hong Kong-based conglomerate NWS Holdings and Chow Tai Fook Enterprises, has placed a firm order for 20 A320neos. Goshawk Aviation is based in Dublin, Ireland, and has an owned, managed and committed fleet of over 220 aircraft including the direct order with Airbus. Goshawk has more than 120 Airbus

### Boeing, Jet Airways sign order for additional 75 737 MAX airplanes



Jet Airways signs for 75 additional 737 MAX 8 airplanes

Photo: Boeing

Boeing and Jet Airways confirmed that the Indian carrier has placed an order for an additional 75 737 MAX 8 airplanes during a signing ceremony at the 2018 Farnborough International Airshow. The order, valued at US\$8.8 billion at current list prices, was previously posted as unidentified on Boeing’s Orders and Deliveries website. This order for an additional 75 MAX airplanes will help the Indian carrier expand its network to meet surging demand in the fastest-growing aviation market in the world.



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# TRANSACTIONAL SUPPORT & RISK MANAGEMENT

19 September 2018, Copthorne Tara Hotel,  
Kensington, London



## Highlights:

- ▶ Overview of Current Market Place
- ▶ Key Risks Faced
- ▶ Transaction Life Cycle
- ▶ Due Diligence
- ▶ Credit Evaluation & Portfolio Diversification
- ▶ Post Closing Contract & Risk Managment
- ▶ Insurance
- ▶ Defaults & Repossession Planning

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## AIRCRAFT & ENGINE NEWS

aircraft in its portfolio (A320 Family including the neo, A330 Family including the neo, and the A350-900) and the order for A320neos reinforces the appeal of the world's bestselling single-aisle family of aircraft. Engine selection will be made at a later date.

STARLUX Airlines of Taiwan has selected the all-new A350 XWB for its future long-haul fleet, following the signature of a Memorandum of Understanding for the purchase of 17 aircraft, comprising 12 A350-1000s and five A350-900s. The news follows a decision by the airline earlier this year to also select Airbus for its regional single-aisle fleet, with a plan to finalize leases for 10 A321neo aircraft from third-party lessors by the end of the year. STARLUX Airlines is a new full-service airline based in Taipei and was founded by Taiwanese aviation veteran Chang Kuo-wei, former Chairman of EVA Air. The carrier will develop a network which will span destinations across Asia and long-haul services to North America. The carrier will launch regional operations in early 2020, followed by long-haul services early in 2022.

Airbus confirmed at the Farnborough Airshow a deal agreed earlier in 2018 that Sichuan Airlines, based in the Southwestern Chinese city of Chengdu, has selected the A350 XWB to become the latest aircraft in its fleet. Sichuan Airlines operates the largest all-Airbus fleet in China with over 130 Airbus family aircraft. In addition to its domestic network, Sichuan Airlines now operates on over 30 international routes, including routes from Chengdu to Moscow, Sydney, Dubai and Vancouver. The airline has also leased four A350 XWBs, with the first one to be delivered this year. The newly introduced A350 XWB aircraft, which are a strong supplement to Sichuan Airlines' Airbus fleet, will be deployed on its non-stop long-haul international routes, such as Chengdu to North America, and Europe.

Golden Falcon Aviation, the exclusive aircraft provider of Wataniya Airways, has confirmed an order for 25 Airbus A320neo family air-

## Aurigny signs Letter of Intent for three ATR 72-600s equipped with new ClearVision™ system



ATR ClearVision™

Photo: ATR

Guernsey based airline Aurigny and turboprop manufacturer ATR have announced the signature of a Letter of Intent for the purchase of three ATR 72-600s, subject to the approval of the States of Guernsey. These three aircraft are expected to replace the current three ATR 72-500s operated by the airline. These new ATR -600s will feature the new ClearVision™ Enhanced Vision System (EVS), which uses an external camera to display an augmented outside-view in real-time to a head-mounted visor, worn by the pilot. The EVS significantly improves a pilot's vision and as Guernsey is situated in the English Channel it is regularly affected by fog, often at short notice, leading to disruptions to flight operations. An ATR equipped with the ClearVision™ EVS addresses this pain point of the pilot's limited visibility and could have saved 50% of the forbidden landings (24 of 48) in Guernsey, over the period of a year. Aurigny anticipates that this innovation will deliver significant savings in their future operations. ClearVision™ is an option on ATR's latest avionics suite, Standard 3, which delivers important operational improvements. In addition to the EVS selected by Aurigny, ClearVision™ also offers a Synthetic Vision System (SVS) that provides the pilot's Head-Up Display with digital images of terrain and obstacles, from an extensive database. Operators can also opt for a Combined Vision System (CVS), combining the EVS and SVS, and offering pilots the best possible vision and situational awareness.

craft. The order follows an earlier MoU announced at last year's Dubai Airshow. Wataniya Airways resumed operations in July 2017 and currently operates a fleet of four A320 family aircraft serving destinations in the Middle East, Europe, Africa and Asia from

its home base in Kuwait. The A320neo family aircraft will support the airline's vision to become the fastest-growing and leading airline in the country.

VISTARA, the New Delhi-based carrier, has signed a letter of Intent (LoI) for 13 A320neo

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## AIRCRAFT & ENGINE NEWS

aircraft to add to its existing portfolio of 21 Airbus airplanes, reconfirming the appeal of the best-selling single-aisle family. The full-service airline has also committed to an additional 37 A320neo Family aircraft from lessors. The combined agreements will add 50 A320neo Family aircraft to Vistara's fleet. The engine selection for VISTARA's latest firm order is the Leap CFM.

### Milestone Aviation and Leonardo awarded Aramco medium helicopter renewal program, including 21 AW139s

Milestone Aviation Group, a GECAS company and a global leader in helicopter leasing, and Leonardo have been selected to renew the medium helicopter fleet of Aramco Overseas Company, a subsidiary of Saudi Aramco (Aramco) – a fully integrated, global petroleum and chemicals enterprise. Leonardo and Milestone have signed a contract for 17 Leonardo AW139 helicopters plus four options and Aramco expects to take delivery of a total of 21 aircraft over the next three years, starting 2018. Aramco awarded the contract to Milestone and Leonardo through a competitively tendered process. Milestone's financial stability, the outstanding capabilities of the modern and proven AW139, and ability of both partners to deliver were key to meeting the needs of the program. Further, Milestone's leasing solution encompassing the entire medium fleet was compelling, enabling the energy company to invest in its operations.

### Hongtu Airlines and CFM sign US\$400 million engine RPFH agreements

Yunnan Hongtu Airlines and CFM International have signed an agreement for the purchase of CFM56-5B engines to power three Airbus A320ceo aircraft. In addition, the airline signed a 12-year Rate Per Flight Hour Agreement (RPFH) to support 24 LEAP-1A engines that will power its leased A320neo fleet. Under the RPFH, CFM will provide maintenance support on a dollar-per-flight-hour basis. These agreements, which also include the potential purchase of two LEAP-1A and one CFM56-5B spare engines, are valued at a total of US\$408 million at list prices.

### CFM and Aviation Capital Group sign LEAP-1A and LEAP-1B engine deals

CFM International and Aviation Capital Group (ACG) have announced the selection of LEAP-

## DHL Express to purchase 14 Boeing 777 Freighters



DHL Express orders 14 Boeing 777 Freighters

Photo: DHL Express

At the Farnborough International Airshow, DHL Express announced an order for 14 Boeing 777 Freighters, which also includes options and purchase rights for 7 additional aircraft. The delivery of the first four planes is expected to be completed in 2019. Overall, these 14 intercontinental plane replacements are capacity neutral, but operational wise with significant cost, efficiency and reliability benefits. And, while DHL Express in the past has chiefly been leasing aircraft to operate its global network on the routes, the purchase of fully owned freighter aircraft will improve the cost position of the DHL Express division going forward. For 2018, prepayments have already been included in the group Capex guidance. Expanding cross-border e-commerce sales will grow to US\$4.48 trillion by 2021, which means a growth of 19.2% per year. DHL's investment in the 777 Freighters is a direct answer to the growing demand for global express capacity. Being the largest twin-engine cargo airplanes in the world, Boeing's 777 Freighters are capable of flying 4,900 nautical miles (9,070 kilometers) with a cargo load of 102 tons. These state-of-the-art aircraft will reduce CO2 emissions by 18 per cent versus the aircraft being replaced. This will help us to contribute to greater sustainability in line with our climate protection target which is to reduce all logistics-related emissions to zero by the year 2050. DHL Express operates over 260 dedicated aircraft with 17 partner airlines on over 600 daily flights across 220 countries.

1A engines to power ten firm-ordered Airbus A320neo family aircraft. ACG has also secured the option to purchase 18 additional LEAP-1A engine shipsets to power Airbus A320neo family aircraft. This firm engine order is valued at US\$300 million at list price.

CFM International and Aviation Capital Group (ACG) have also signed an order for LEAP-1B engines to power 20 additional Boeing 737 MAX aircraft. CFM values the order at US\$528 million at list price.

### AEI signs contract for four additional CRJ200 SFs for Aeronaves T.S.M

Aeronautical Engineers (AEI) has signed a contract to provide Mexico-based Aeronaves T.S.M. (TSM) with four additional CRJ200 SF freighter conversions. The first CRJ200 of this order will commence in September, with re-delivery scheduled for January 2019. The sec-

ond, third and fourth aircraft conversions will commence in March, July, and December of 2019 respectively. Commercial Jet's Dothan, Alabama facility will perform the modification touch labor for all four conversions. Upon completion and delivery, TSM will operate a total of eight AEI CRJ200 SF freighters. TSM's plans call for at least doubling its fleet of CRJ200 SF freighters in the coming years.

### Ethiopian Airlines selects GENx engines to power additional Boeing 787 Dreamliners

Ethiopian Airlines has selected the GENx engine to power its six additional Boeing 787-9 Dreamliner aircraft. This selection increases Ethiopian Airlines' GENx-powered B787 aircraft to 19 in total. "The GENx engine has performed extremely well for our airline with high reliability and good fuel efficiency," said



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Mr. Tewolde Gebremariam, Group CEO of Ethiopian Airlines. "This proven performance led to our selection of the GENx engine for our additional B787 aircraft."

### GE signs new engine orders with LEVEL, Volga-Dnepr Group and Nordic Aviation Capital

Volga-Dnepr Group and CargoLogicHolding have signed a Letter of Intent (LoI) with GE Aviation for 29 GE90-115B-powered Boeing 777 Freighters and five GENx-2B-powered Boeing 747-8 Freighters. The engine order is valued at more than US\$2.5 billion at list price. LEVEL, International Airlines Group's (IAG) low-cost long-haul airline, has placed an order for CF6-80E engines with GE Aviation to power its two new Airbus A330 aircraft and signed a 10-year TrueChoice Flight Hour agreement for the maintenance, repair and overhaul of the engines. The engine order and TrueChoice agreement are valued at more than \$170 million (USD) at list price and over the life of the service agreement.

Nordic Aviation Capital (NAC), a global leader in regional aircraft leasing, and GE Aviation have signed a memorandum of understanding (MoU) for a ten-year TrueChoice™ Flight Hour agreement for its CF34-10E engines fleet. Under the agreement, NAC will offer GE Aviation-provided maintenance, repair and overhaul services to its CF34-10E lessees.

### Viva Aerobus firms up order for 25 A321neos and 16 A321neos

Viva Aerobus, the ultra-low-cost carrier based in Mexico, has firmed up an amendment for 25 incremental A321neos and 16 up-conversions of A320neos to A321neos to its existing purchase agreement. This latest order brings the all-Airbus operator's total orderbook to 80 A320 Family aircraft (including 15 A320neos, 24 A320neos, and 41 A321neos) and the airline's total backlog from 36 to 61 aircraft. Viva Aerobus has not yet decided on the engine selection and will announce it later.

### MoUs signed by Hokkaido Air System for three ATR 42-600s and EasyFly for five ATR-600 series aircraft

Hokkaido Air System, a JAL Group Company and ATR have signed a Memorandum of Understanding (MoU) for the purchase of two firm ATR 42-600s with an option for a third. HAC will begin operating these aircraft from

### Embraer and United Airlines sign contract for 25 E175s



United Express signs contract for 26 E175 jets

Photo: Embraer

Embraer and United Airlines have signed a firm order for 25 E175 jets in a 70-seat configuration at the Farnborough Air Show. The contract has a value of US\$ 1.1 billion, based on current list prices, and will be included in Embraer's 2018 third-quarter backlog. Deliveries will begin in the second quarter of 2019. Since entering revenue service, the E-Jets family has received more than 1,800 orders and over 1,400 aircraft have been delivered. Today, E-Jets are flying in the fleets of 70 customers in 50 countries. The versatile 70-to-150-seat family is flying with low-cost airlines as well as with regional and mainline carriers.

### VietJet signs agreement with Boeing for 100 737 MAX Airplanes



VietJet signs MoU for 100 737 MAX aircraft

Photo: Boeing

VietJet and Boeing have signed a Memorandum of Understanding (MoU) at the Farnborough International Air Show for an additional 100 737 MAX airplanes. The agreement, which includes 80 737 MAX 10s and 20 737 MAX 8s, is valued at more than US\$12.7 billion at current list prices. The Vietnamese low-cost carrier will become the largest MAX 10 customer in Asia once the deal is completed. VietJet plans to leverage the added capacity of the MAX 10 to satisfy surging demand on high-density domestic routes, as well as on popular destinations throughout Asia. As part of the agreement, Boeing would partner with VietJet to enhance technical and engineering expertise and the training of pilots and technicians in Vietnam, helping to further develop the growing commercial aviation ecosystem in the country. Boeing will also support VietJet in improving management capabilities at the airline and in the country. VietJet is Vietnam's first privately owned airline and is also the first low-cost carrier in the country. The airline is in the midst of bolstering its world-class fleet with highly efficient and capable airplanes that will allow for expansion of its regional network. In 2016, VietJet finalized an order for 100 high-capacity 737 MAX 8 airplanes, which set the mark for the largest-ever single commercial airplane purchase in Vietnam aviation history.

## AIRCRAFT & ENGINE NEWS

2020. The aircraft will replace HAC's fleet of Saab 340s, taking advantage of the superior economics of the cutting-edge ATR-600 series. Colombian airline EasyFly and ATR have signed a Memorandum of Understanding (MoU) for the purchase of five ATR -600 series aircraft, of which three are ATR 72-600s and two are ATR 42-600s. EasyFly became an ATR operator in 2014 when it began the progressive replacement of its fleet of Jetstream 41s. The new ATR 72-600s will mainly serve growing point-to-point operations from a hub in the northern city of Bucaramanga, a city with one of the fastest-developing economies in Colombia.

### Embraer signs Letter of Intent with NAC for three E190 jets

Embraer has signed a Letter of Intent (LoI) with Nordic Aviation Capital (NAC) for three E190 aircraft. The deal has an estimated value of US\$ 156 million, based on Embraer's list prices. These new aircraft will join the existing 134 E-Jets currently owned by NAC.

### ALC selects LEAP-1A in new US\$1.0 billion engine order

Air Lease Corporation has selected CFM International's advanced LEAP-1A engine to power 34 previously announced Airbus A321neo aircraft in an order valued at just over US\$1.0 billion at list price. Air Lease Corporation (ALC) specializes in purchasing new commercial aircraft and leasing them to its airline customers worldwide through customized leasing and financing solutions.

### CALC signs CFM engine orders valued at US\$550 million

Hong Kong-based China Aircraft Leasing Company (CALC) has selected CFM International's advanced LEAP-1A engine to power 17 firm and up to 50 option new Airbus A320neo family aircraft. In addition, the leasing company finalized an order for CFM56-5B engines to power three firm and nine option Airbus A320ceo aircraft. These two agreements are valued at US\$550 million at list price.

### British Airways signs commitment for three 777 airplanes

Boeing and British Airways have signed a commitment for three 777-300ER (Extended

## Peach Aviation to become first A321LR operator in Asia



Peach Aviation to become the first A321LR operator in Asia

Photo: Airbus

Japan's Peach Aviation is set to become the first Asian operator of the Airbus A321LR aircraft, following the conversion of an existing order for two A320neo aircraft. The aircraft will be joining the fleet of the Osaka-based low cost carrier (LCC) in 2020. The A321LR is the longest-range single-aisle aircraft in the world and will enable Peach Aviation to open new routes from Japan to destinations of up to nine hours flying time. A signing ceremony took place at Farnborough Air Show, attended by Shinichi Inoue, Peach Aviation Managing Director and CEO, and Eric Schulz, Airbus Chief Commercial Officer. The A321LR features a new door configuration, enabling its operators to accommodate up to 240 passengers in Airbus' widest Single Aisle fuselage in the sky. The new Airspace by Airbus cabin available on the A320 Family additionally enhances the passengers' unrivalled travel experience.

## GECAS, Boeing announce agreement for 35 737-800 Boeing Converted Freighters



GECAS, Boeing announce agreement for 35 737-800 Boeing Converted Freighters

Photo: GECAS

GECAS and Boeing have reached an agreement for 35 additional 737-800 Boeing Converted Freighters (BCFs) at the 2018 Farnborough International Airshow. The deal, which includes 20 firm orders and an option for 15 more, would take GECAS' 737-800BCF order book from 15 to 50 and enable GECAS to serve the growing express air cargo market. The commercial aircraft leasing and financing arm of General Electric [NYSE: GE] is the launch customer of the new 737-800BCF. It took delivery of the first converted jet in April and leased it to a Swedish cargo carrier. This agreement, which is subject to GECAS board approval, would take the total commitments for the 737-800BCF program to 80 from more than half a dozen customers.



## AIRCRAFT & ENGINE NEWS

Range) airplanes. British Airways will take the 777s on an operating lease with a leasing company. British Airways is one of the world's largest operators of the long-range jet, operating 58 777-200ER and 777-300ER airplanes across its global network. British Airways also flies 28 787 Dreamliners and more than 30 747-400s.

### Aeromexico signs US\$2.3 billion support agreement for LEAP-1B fleet

Mexico's flag carrier, Aeromexico, has signed a 12-years Rate Per Flight Hour agreement with CFM Services to support a minimum of 128 LEAP-1B engines that power its fleet of Boeing 737 MAX 8 and MAX 9 airplanes. The order is valued at US\$2.3 billion U.S. at list price. RPFH agreements are part of CFM Services flexible support offering. Under the terms of the agreement, CFM will support the fleet on a dollar-per-flight-hour basis. Aeromexico, which was founded in 1934, is a long-time CFM customer and took delivery of its first CFM56-7B-powered Next-Generation 737 in 2003. Today, the airline operates three new 737 MAX 8 airplanes, as well as a fleet of more than 52 CFM56-powered Next-Generation 737s.

### MTU Aero Engines wins orders valued at circa €800 million

This year's Farnborough International Airshow proved a major success for MTU Aero Engines. Germany's leading engine manufacturer secured orders worth around €800 million (according to list price), in particular with orders and memorandums of understanding (MoUs) for the PW1000G- geared turbofan (GTF) engine family for single-aisle aircraft. It powers the Airbus aircraft A220 (formerly C Series) and the A320neo as well as Embraer E2 jets, amongst others. "GTF programs are shaping MTU's future in the commercial engine business," commented MTU CEO Reiner Winkler, referring to the order books. "The success of the geared turbofan family became evident once more at the Farnborough Airshow. PW1000G engines have been very well received in the market. Thanks to our preparation in recent years, we are ready for the ramp-up," Winkler added. MTU benefits from a large number of the deals made at the airshow through its partnership shares in engine programs. In fact, almost all of the relevant deals were for the high performing GTF technology. JetBlue placed the biggest order; the carrier agreed to buy up to 120 aircraft

### Airbus Helicopters handover of Empire Test Pilot School H125 to Qinetiq



Qinetiq's Nic Anderson and Airbus Helicopters' Colin James at the ETPS H125 handover Photo: Airbus / F. LANCELOT

Colin James, Airbus Helicopters' UK Managing Director, formally handed over the latest Empire Test Pilot School (ETPS) H125 helicopter to Nic Anderson, Managing Director Air and Space, Qinetiq. Under the current modernization program, the world-renowned test pilot flight school will receive four H125s, which will make up ETPS' new-generation, single-engine helicopter fleet. Minister of State for Defence Earl Howe visited the aircraft as part of the handover and met both Airbus Helicopters and Qinetiq to show his support for the latest addition to the ETPS fleet. All four ETPS H125s will be delivered following complex customization by Airbus Helicopters' UK design team, which equips the aircraft with, among other things, a three-axis autopilot, dedicated communications equipment and a traffic awareness system. In addition, the aircraft will be equipped with a Flight Test Instrumentation suite which, similar to Formula 1 telemetry, transmits data to the ETPS base at Boscombe Down in real time allowing students, both in practical and class-based environments, to test and evaluate aircraft design and performance.

### GECAS arranges sale-and-leaseback plus PDP financing for two Boeing 737 MAX 8s to Okay Airways



GECAS arranges sale-leaseback for two Boeing 737 MAX 8s to Okay Airways

Photo: GECAS

Following the delivery last week of Okay Airways' first leased Boeing 737 MAX 8, GECAS has signed another contract with Okay Airways for the purchase-and-leaseback with pre-delivery payment financing of two Boeing 737 MAX 8s. The aircraft, fitted with CFM LEAP-1B engines, are scheduled for delivery in July and September 2019. Established in 2004, Okay Airways is the first privately owned aviation company in operation in China. Based in Tianjin Binhai International Airport, the carrier currently operates an all-Boeing fleet. The new 737 MAX 8s will provide Okay with the latest technology and fuel efficiency to enhance its fleet, which services over 150 domestic and international routes and connects to approximately 70 cities.

## AIRCRAFT & ENGINE NEWS

powered by PW1500G engines for its A220 fleet of Airbus (former C Series), followed by US start-up investor David Neeleman, who ordered 60 aircraft of this type. More orders came in for the PW1900G, the geared turbo-fan variant powering the E190-E2/E195-E2 single-aisle aircraft from the Brazilian aircraft manufacturer Embraer. Helvetica Airways, a Swiss carrier based in Zurich, ordered 24 E190-E2 jets equipped with this engine. The airline Wataniy Airways from Kuwait was also convinced by the technology. It ordered 20 aircraft of the E190-E2 model. And Brazilian low-cost carrier Azul made a commitment for 21 aircraft of this type. Orders for five additional E2 jets came from unnamed customers. The PW1100G-JM, the engine powering the A320neo family, continued to see high demand at the UK-based airshow. MTU benefits from orders placed by Air Lease Corporation (ALC) for more than 43 narrowbodies (A320neo/A321neo), CALC for 18 A320neo aircraft as well as from Middle East Airlines, the national airline of Lebanon, based in Beirut, which ordered eleven A320neo aircraft.

### easyJet takes delivery of first A321neo

easyJet has taken delivery of its first A321neo aircraft, marking the milestone with a flight into Farnborough International Air Show on July 18.

"This is a great day in our long relationship with easyJet," said Gaël Méheust, President and CEO, CFM International. "In the past year, they have done a great job of integrating the LEAP engine into their fleet. The A321neo, coupled with the outstanding operating economics of the LEAP-1A engine, will make this airplane a real asset for them."

In 2017, easyJet announced an agreement with Airbus to convert 30 of its existing A320neo aircraft orders to the A321neo aircraft 235-seat configuration, part of the airline's existing agreement dating back to 2013.

### CFM logs US\$15.7 billion in orders at Farnborough Airshow

CFM International, a 50/50 joint company between GE and Safran Aircraft Engines, has received orders and commitments for just over 858 LEAP and CFM56 engines at the 2018 Farnborough Airshow, in addition to long-term services agreements, at a total value of US\$15.7 billion list price.

- Hongtu Airlines CFM56-5B engines & RPFH \$408 million
- Vistara LEAP-1A engines \$375 million

### AirAsia X orders 34 more A330neos



Air Asia X places order for 34 Airbus A330neos

Photo: Airbus

AirAsia X has placed an order with Airbus for an additional 34 A330neo wide-body aircraft. The order was announced at the Farnborough Air Show in the UK by Kamarudin Meranun, AirAsia Co-founder and AirAsia X Group Chief Executive Officer, Tan Sri Rafidah Aziz, Chairman of AirAsia X and Eric Schulz, Airbus Chief Commercial Officer. The latest agreement reaffirms AirAsia X's position as the largest airline customer for the A330neo, with the total number of aircraft ordered by the airline increasing to 100. All the A330neo aircraft ordered by AirAsia X are the larger A330-900 model.

### Doric announce first secondary market transaction for an Airbus A380



Hi Fly A380 with "save the coral reef" livery at Aviation Cosmetics Malta

Photo: Doric

Following many months of negotiation and preparation, Doric's Asset Management team has announced the first-ever secondary market transaction for an Airbus A380. It comes almost 11 years after the first A380's maiden commercial flight. The lease agreement with the Portuguese wet lease operator Hi Fly for the A380 (MSN 006) began in July 2018 and has a term of nearly six years. Doric's Asset Management was able to arrange a direct handover of the aircraft from the previous operator to Hi Fly. The freshly painted A380 with a special livery "save the coral reefs" and a completely refurbished cabin has been presented to visitors from the aerospace industry and the public during the Farnborough International Airshow. The aircraft arrived in Farnborough from Malta today (Thursday). Its exhibition at one of the world's largest airshows underscores the attractiveness of the A380 as an air transport solution also for the next generation of operators. Doric is confident that the experience gained over the past months with this transaction will help to establish a solid secondary market for the Airbus A380 in the future.



## AIRCRAFT & ENGINE NEWS

- Loong Air CFM56-5B & LEAP-1A RPFH \$500 million
- STARLUX LEAP-1A engines & RPFH \$220 million
- Comair LEAP-1B RPFH \$160 million
- Aviation Capital Group LEAP-1A & LEAP-1B engines \$848 million
- Air Lease Corporation LEAP-1A & LEAP-1B engines \$3.3 billion
- Aeromexico LEAP-1B RPFH \$2.3 billion
- Goshawk LEAP-1B engines \$580 million
- CALC CFM56-5B & LEAP-1A engines \$550 million
- Jackson Square Aviation LEAP-1B engines \$870 million
- TAROM LEAP-1B engines \$145 million
- Gol LEAP-1B engines \$435 million
- Jet Airways LEAP-1B engines \$2.2 billion
- VietJet LEAP-1B engines \$2.9 billion
- Seacons Trading LEAP-1B engines \$29 million.

## MRO & PRODUCTION NEWS

### **Daher begins warehousing and logistics management for support tooling in Rolls-Royce's UK jet engine production network**

Daher is assuming full warehousing responsibilities for approximately 28,000 handling tools used by Rolls-Royce in the manufacture of jet engines across the company's UK production network. Under terms of the agreement, Daher is centralizing and stocking the support tooling in a 30,000-m<sup>2</sup> warehouse at Doncaster in northwest England, as well as packaging and dispatching of these tools to manufacturing sites, followed by their return to storage. The extremely diverse tooling weighs from 0.5 kg. to 30 tons and is used across the Rolls-Royce production network for handling jet engine components that range from fan blades to large powerplant modules. These responsibilities build on a 15-year relationship with Rolls-Royce, during which Daher has provided tailor-made tooling containers and kitting for the jet engine manufacturer's production flow. As part of the latest agreement, Daher has applied innovation by creating an internal web portal that is constantly updated with the Doncaster warehouse's inventory of handling tools. Operators wearing camera-equipped smart glasses can be directed via Wi-Fi links within the warehouse, facilitating the location and verification of specific tools. The support tooling's warehousing and logistics management agreement is part of Rolls-Royce's program to simplify its logistics operating model by adopting industry-standard prac-

tices, enhancing visibility and accountability throughout the supply chain, while reducing transport costs.

### **GKN Aerospace creates repair facility for aircraft engine components in Malaysia**

GKN Aerospace has created a new Aero Engine Component Repair (MRO) and Research facility in the state of Johor in Southern Malaysia. The facility will open in 2019 and will service engine fan blades and fan discs for commercial aircraft. The facility will provide additional capacity to GKN Aerospace's existing facility in San Diego, CA, to meet growing demand in the Asia Pacific region. The move further strengthens GKN Aerospace's operational footprint in Asia, bringing it closer to customers in the region. The expansion is an important part of GKN Aerospace's long-term growth strategy and global operating model. Johor is centrally located for aero engine customers in the region, with access to a skilled work force and strong infrastructure. GKN Aerospace intends to add research capability to the facility and will work with local knowledge institutes to adopt new technologies and grow the product offerings for the new generation of aero engines. The support of the Malaysian Government and the Malaysian Investment Development Authority (MIDA) was essential in identifying the location for a suitable and competitive site. GKN Aerospace already operates six facilities in Asia, delivering wiring systems, transparencies and services in China, India, Singapore, Thailand and Turkey. With this latest expansion, GKN Aerospace's industry-leading engine systems business will have its first site in the Asian-Pacific region, which is a key growth market for the future.

### **GKN Aerospace and Boeing extend agreement on wiring systems**

GKN Fokker Elmo and Boeing have agreed to a contract extension to supply wiring for three of Boeing's airplane families. GKN Fokker Elmo has supplied electrical wiring and interconnection systems (EWIS) to Boeing airplanes for more than a decade for the 777, 737 and P8A and that contract was extended at the Farnborough International Air Show on July 16. The contract extension is confirmation of GKN Fokker Elmo's position as a strategic EWIS supplier to Boeing. The manufacturing activities through the contract extension will see the continued production of the 737, 777 and P8A programs supported by the teams in the Netherlands, Turkey, China, and establishing production work within the new India facility.

### **Pattonair expands with Parker Aerospace to win Fluid Systems Division contract**

Global aerospace and defense supply chain service provider Pattonair has secured a new contract with long-term customer Parker Aerospace to supply its Fluid Systems Division. The newest win builds on a 20-plus-year established relationship with Parker and brings in some 1,500 new parts to the Pattonair supply chain through a consigned inventory program. Pattonair will support FSD's controls, fuel specialty products, hydraulics and engine pneumatics line, based out of Naples, FL, USA. Parker Fluid Systems is working with Pattonair to support the following platforms – Trent 1000, Trent 7000, Airbus A320, Lockheed C130 and the Safran CFM56 (both 5B & 7B kits). Future programs are the Gulfstream G650, Airbus A350, Cessna Citation and, GE 38. Pattonair worked closely with Parker personnel to ensure the development of a world-class solution to help reduce costs and optimize parts availability.

### **Comlux launches ER solutions by comlux to boost Airbus A321ceo range performance**

Comlux has launched a new division, ER Solutions by comlux, to propose to airlines an auxiliary fuel tank system increasing the range capability on the Airbus A321ceo. Further to a successful flight test and implementation during Q4 2017, the new system called FACT "Forward Additional Comlux Tank" received its FAA certification in February 2018 and is currently under the EASA certification process. The system has been in service with an Airbus ACJ321 since March 2018 and has proven additional range capability on long-haul routes not previously achievable. ER Solutions is now offering to the market a totally new system allowing airlines and VIP clients to link new city pairs thanks to the range increase: up to 400nm for the commercial airliner version of the A321ceo and up to 500nm for the ACJ321ceo VIP version. In collaboration with Airbus specialists, Comlux engineers developed this new FACT system to complement the existing Airbus Additional Center Tanks (ACT). While FACT provides around 4000 Liters / 1000 Gallons of extra fuel, its design offers a lightweight, optimized, yet cost-efficient solution for the A321 platform, ensuring minimal downtime for installation. As 30% of all A321s are provisioned with ACTs, there are already clear potential candidates who would benefit from this option of more range, including various major airlines.

## MRO & PRODUCTION NEWS

### Comair, STARLUX and Loong Airlines sign service agreements with CFM International

South Africa's private domestic airline operator, JSE-listed Comair Limited, has signed an eight-year Rate Per Flight Hour (RPFH) agreement to support its fleet of 16 CFM56-7B engines. The agreement is valued at US\$160 million at list price. RPFH agreements are part of CFM Services flexible support offering. Under the terms of the agreement, CFM will support the fleet on a dollar-per-flight-hour basis.

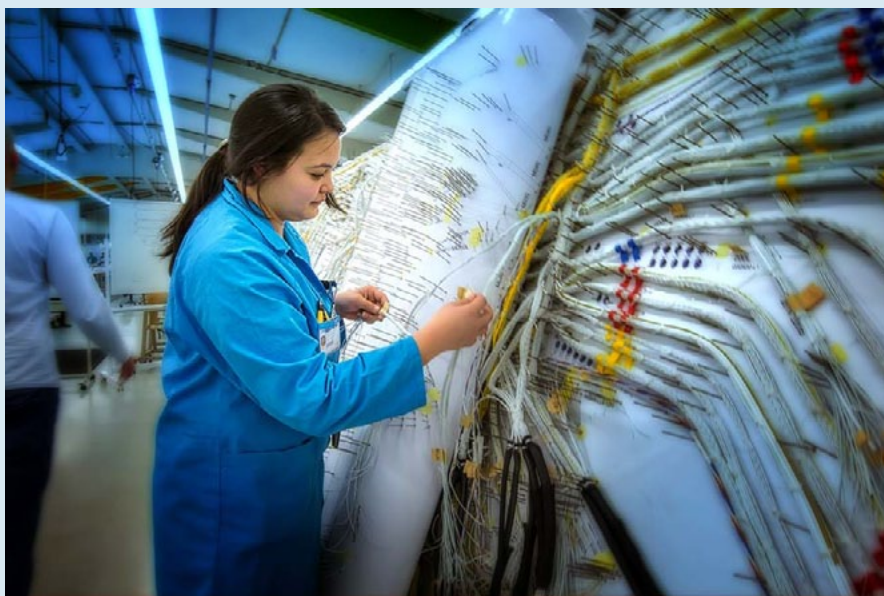
STARLUX and CFM International have concluded a long-term service agreement to support the airline's fleet of leased Airbus A321neo aircraft powered by the advanced LEAP-1A engine. The agreement, which includes the purchase of one spare engine, is valued at US\$220 million. Under the terms of the 12-year Rate Per Flight Hour (RPFH) agreement, CFM Services provides maintenance on a dollar-per-flight-hour basis for all LEAP-1A engines powering STARLUX's fleet of ten A321neo aircraft. RPFH agreements are part of CFM's portfolio of flexible aftermarket support offerings.

Zhejiang Loong Airlines has signed a long-term Rate Per Flight Hour agreement with CFM International to support its fleet of LEAP-1A and CFM56-5B engines. The agreement is valued at US\$500 million at list price. Under the terms of the 12-year agreement, CFM will guarantee the maintenance costs of the airline's leased fleet of 24 LEAP-1A and 11 CFM56-5B engines on a dollar-per-engine-flight-hour basis.

### USM by Liebherr: an additional Material Service Solution

Liebherr-Aerospace will include Used Serviceable Materials (USM) as part of its services to customers. USM by Liebherr will be available across the worldwide network of the company and will be centrally managed from Liebherr-Aerospace's Dubai Service Center. Liebherr-Aerospace will source Liebherr systems and equipment from aircraft destined for dismantling. The company's worldwide network of service centers will then release these units with appropriate airworthiness certification. Serviceable assets will be proposed to the market as alternatives to OEM parts in condition "New", to help the customers optimize their operational costs when procuring OEM quality services such as replacements in case of high value repairs, exchanges and loans, stock leasing, pool access, stock replenishments, and outright purchase.

### GKN Aerospace to establish new wiring facility in India to support expansion in Asia



GKN Aerospace to establish new wiring facility in Pune, Maharashtra

Photo: GKN Aerospace

GKN Fokker Elmo and the State of Maharashtra (India) have signed an MoU for investment in a second manufacturing facility for wiring interconnection systems in India at the Farnborough Air Show. The new site, a fully owned GKN Aerospace business, is located in Pune in the state Maharashtra and is scheduled to come on line in the fourth quarter of 2018. Production will start in the first quarter of 2019; the work force is expected to grow to 800 by 2027.

The site will focus on the assembly of wiring systems for commercial aircraft and will operate alongside the existing joint venture for wiring systems in Bangalore which is serving the defense market. The plans also include the installation of proprietary wiring design and manufacturing system, a unique tool that is rolled out globally throughout all manufacturing locations worldwide to ensure the same high quality everywhere in the world.

GKN Aerospace, GKN Driveline and GKN Powder Metallurgy have made significant investment in India in recent years. The three businesses operate eight locations in India with 2,000 employees. India is an important country in GKN Aerospace's plan to expand the Asian footprint. The company also recently announced a new facility in Malaysia, another element of the Asian expansion plan. By the time both sites are fully up-and-running, around 15% of GKN Aerospace's employees are expected to be based in Asia.

Pune offers favorable conditions in the areas of business development, labor, education & training and infrastructure. It also has an excellent location relative to the company's major customers in India.

### Safran Helicopter Engines renews Pattonair contract for global OEM and MRO parts support through to 2025

Rotorcraft turbine manufacturer, Safran Helicopter Engines (SHE), has awarded a global OEM and MRO parts support contract to Pattonair until 2025. Incumbent supplier, Pattonair, won the competitively bid contract to support 16 Safran sites globally and to deliver over 6,000 C-Class parts to 180 locations worldwide through to 2025. The contract also encompasses a combination of product cost improvement projects to be driven forward by Pattonair and jointly with SHE. Pattonair is an SHE Gold Supplier, which recognizes those suppliers who can guarantee

the best performance and provide a real return on long-term investment. Pattonair has consistently delivered a high-level service to exacting quality standards and consistently improved its service offering since first supporting SHE in 2007, supplying 1,200 parts. In 2010, Pattonair achieved EASA Form 1 delegation, demonstrating SHE's confidence in Pattonair. In 2015, SHE renewed Pattonair's contract during which it innovated with the introduction of value-added services such as kitting solutions to increase efficiency on SHE production lines. Pattonair supports Safran Group Companies including Safran Aircraft Engines, Safran Transmissions, Safran Landing Systems and others.



## MRO & PRODUCTION NEWS

### Farsound Aviation wins renewed contract to supply TEXTL

Farsound Aviation, the aero engine MRO component supplier of choice, is pleased to announce that it has retained its contract with TEXTL to supply C-Class parts for GE90 engine overhaul. A customer of Farsound Aviation's since 2014, TEXTL is based in Xiamen, China and specializes in the repair, overhaul and testing of GE90-series engines for a number of the world's leading airlines. TEXTL is a designated GE90 Center of Excellence and the sole holder of a General Electric GE90-branded service agreement in Asia.

### Air Tanzania selects StandardAero for tailored PW150A engine maintenance solution

StandardAero has signed an exclusive five-year time-and-material contract with Air Tanzania to provide maintenance and engineering services for the Pratt & Whitney Canada (P&WC) PW150A engines powering the flag carrier's fleet of three Q400 regional turboprops. This new contract extends StandardAero's relationship with Air Tanzania, the company having previously provided engine support for the airline's Q300 aircraft. Under the five-year contract, StandardAero – one of three P&WC network overhaul facilities worldwide for the PW150A – will provide scheduled and unscheduled engine maintenance from its state-of-the-art location in Singapore.

### Azul renews Global Maintenance Agreement with ATR for next 10 years

After almost eight years of cooperation, ATR and the Brazilian carrier Azul have renewed their Global Maintenance Agreement (GMA). This contract covers the repair, overhaul and pooling services of Line-replaceable Units, along with propeller availability and maintenance, plus an on-site stock support. Covering Azul's whole ATR fleet, currently made up of 33 aircraft, this tailor-made support package represents ATR's biggest maintenance contract.

### GKN Aerospace and Rolls-Royce extend ten-year US\$ multi-million agreement on inner core fairings



GKN Aerospace and Rolls-Royce extend ten-year agreement on inner core fairings

Photo: GKN

GKN Aerospace and Rolls-Royce have formalized an agreement for the manufacturing of inner core fairings for the Rolls-Royce Trent 1000 and 84,000lb-thrust Trent XWB engine programs through 2026. The US\$ multi-million, ten-year program contract is another milestone in a long-term business relationship between GKN and Rolls-Royce that currently includes the company providing exotic metals and advanced complex structures for Trent engines. The contract will be fulfilled at the GKN Aerospace facility in Santa Ana, California, which also produces engine fairings, metallic honeycomb structures used in exhaust systems, and shrouds for major commercial and military programs.

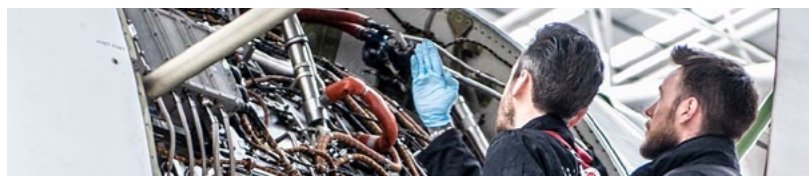
### ST Engineering Aerospace secures component MBH contract from Solaseed Air

ST Engineering Aerospace has secured a multi-year component Maintenance-By-the-Hour (MBH™) contract from Solaseed Air, which will see the company continuing its support in component maintenance for the airline. Under the new agreement, ST Engineering Aerospace will expand its scope of component support services for the airline's fleet of Boeing 737-800s. ST Engineering Aerospace's trademarked MBH™ program is supported by a global network of distribution centers, satellite stores and repair

shops both in-house and external. Through customized MBHTM programs, airlines can select a range of support services and pay a corresponding flight-hour rate. This way, operators are able to keep operating costs low and also minimize fixed-asset inventory holdings in terms of spares or maintenance equipment. Today, ST Engineering Aerospace provides integrated component support for a fleet of more than 600 aircraft on the MBH™ basis, servicing over 20 aircraft operators in Asia Pacific, Europe and the Middle East. In Asia alone, over ten airlines have selected ST Engineering Aerospace



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## MRO & PRODUCTION NEWS

as their preferred component solutions service provider.

### **Dowty Propellers extends contract with SpiceJet for fleet of Bombardier Q400 regional airliners**

Dowty Propellers has extended its support contract for propeller systems on SpiceJet's Bombardier Q400 regional airliner fleet, which the Indian carrier is expanding with the purchase of 25 additional twin-engine aircraft. The new seven-year Dowty Propellers agreement with SpiceJet, signed at the 2018 Farnborough Airshow, is the culmination of a joint process of developing a comprehensive support package tailored to meet the airline's growing volume of flights on domestic and international routes.

### **SR Technics and Air China sign new line maintenance agreement for London Gatwick Airport**

MRO service provider SR Technics has signed a new line maintenance contract for the line station at London Gatwick with Air China. The agreement expands an ongoing collaboration with China's flagship carrier that dates back to 2013. The new maintenance agreement, which took effect on June 1, 2018 covers transit checks and preflight checks including trouble rectification for the Chinese carrier's Airbus A330 fleet. All work will be completed at the SR Technics line station at London Gatwick.

### **T3 Aviation Technical Services (T3Tech) launches under leadership of industry experts**

Cusco Aviation, CAG Aviation Consulting and Hancuff Aviation have joined forces to form T3Tech, an Aviation Technical Services group, under the Leadership of aviation technical experts Manuel E. Cordero, Cesar Guedez and Robert Hancuff. Cordero, Guedez and Hancuff bring over 60 years of combined solid experience in the aviation technical services industry, having had senior-level tenures at worldwide-renowned aircraft leasing companies and airlines. The company has offices in the San Francisco Bay area, California; Miami, Florida; and Seattle, Washington with satellite locations in Europe, Asia and Latin America. T3Tech has an experienced and field-proven team of highly qualified aircraft technical services professionals available worldwide 24/7, 365 days a year. T3Tech's mission is to provide a complete suite of technical services to airlines and aircraft leasing compa-

nies. Its services include, but are not limited to:

1. Complete Aircraft Delivery and Redelivery Solutions for both airlines and lessors
2. A complete and dedicated Technical Services Platform for aircraft lessors
3. Technical Asset Management
4. Technical on-site inspections (technical review of airlines, mid-lease review of aircraft, scanning services, and aircraft repossessions)
5. Airframe and Powerplant Records Review and Scanning services
6. Management of Airframe and Powerplant Maintenance Events and Shop Visits
7. Pre-purchase Technical Inspections

### **Embraer and Kenya Airways sign comprehensive spare parts support contract**

Embraer and Kenya Airways announced the signing of a multi-year contract for the Embraer Collaborative Inventory Planning (ECIP) program. Under this contract, Embraer will take over the planning and replenishment of a sizeable portion of Kenya Airways' spare parts stock covering the 15 Embraer E190 aircraft operated by the airline. ECIP is part of a suite of services that Embraer offers or has under development to support the worldwide growing fleet of Embraer aircraft through TechCare, the new Embraer platform that assembles the entire portfolio of products and solutions to deliver the best experience of services and support. Main benefits of the program include guaranteed availability of parts, optimized inventory with reduced inventory holding cost, fixed spare parts prices, short replenishment lead times and a door-to-door delivery service. Introduced in 2002, the ECIP program takes advantage of Embraer's large expendables inventory, global purchasing power, and sophisticated software to accurately plan and stock contracted expendables at the best possible pricing.

### **Ethiopian Airlines selected as Dowty Propellers' authorized African repair and overhaul facility**

Dowty Propellers has announced an agreement establishing Ethiopian Airlines (Ethiopian) as an authorized repair and overhaul facility in Africa for propellers on Bombardier Q400 regional airliners. Under terms of this agreement, Dowty Propellers will provide training, technical data and equipment, along with support enabling Ethiopian to repair and overhaul Dowty Propellers' R408 propeller hardware that equip the twin-engine Q400. Additionally, Dowty will supply continuous engineering and technical support for Ethiopian's maintenance and support operations, including basing the first permanent Dowty Propellers Field Service Engineer in Africa at Ethiopian's maintenance, repair and overhaul facility in Addis Ababa.

## FINANCIAL NEWS

### **TrueNoord secures financing facility of US\$500 million to underpin global growth strategy**

TrueNoord, the specialist regional aircraft lessor, has closed a senior secured debt facility of US\$ 500 million. The facility will be deployed to refinance part of the existing TrueNoord portfolio of Embraer, Bombardier and ATR aircraft. The remaining part of the debt facility will be used as a warehouse for future business development and fleet expansion. The senior secured debt facility is underwritten by a triumvirate of well-established European and US banks – Morgan Stanley, NORD/LB Norddeutsche Landesbank and Barclays – and it supports TrueNoord's targeted growth strategy which is endorsed by leading investors: Bregal/Freshstream, BlackRock and Aberdeen Asset Management. Milbank, Tweed, Hadley & McCloy LLP acted as legal advisor to TrueNoord. "As mandated lead arrangers, these three banks further augment the strong and globally renowned circle of financiers and investors that facilitate TrueNoord's dynamic progression in the coming months" comments Anne-Bart Tieleman, CEO. "For TrueNoord this is the next important step in our business development and allows us to be more proactive in pursuing regional aircraft leasing transactions. At this week's Farnborough Air Show I anticipate some highly productive discussions as we pursue our guiding policy to acquire new or relatively young aircraft with long leases operated by triple 'A' carriers."

### **KLX Aerospace Solutions acquires John Hassall laboratory operations**

KLX, a leading distributor and value-added service provider of aerospace fasteners and consumables, has acquiring the assets of John Hassall, LLC's laboratory operations. John Hassall is a wholly owned division of Novaria Group. Specifically, KLX will be acquiring the Laboratory Controlled at Source (LCS) lab assets, and expert technical personnel associated with managing the lab. This acquisition further supports KLX Aerospace Solutions' focus on providing engine and engine-related customers with differentiated and industry-leading services to support their unique product and quality requirements. These newly acquired capabilities will allow KLX to provide the additional required testing to support the strict quality requirements of this customer base. Novaria Group is a diversified manufacturer of fasteners and critical components used exclusively in aerospace and military markets. As part of the laboratory sale to KLX, both parties have formed a strategic partnership, wherein KLX has exclusivity on certain



## FINANCIAL NEWS

product lines manufactured by Novaria, as well as production capacity and preferred pricing for certain products and programs

### Farsound Aviation acquires Sterling Aircraft products

Farsound Aviation has acquired Sterling Aircraft Products (Sterling) from the Pump family for an undisclosed amount. Farsound specializes in the supply of C-Class, B-Class and other fast-moving consumable parts for a customer base that includes several of the world's leading aero engine MRO organizations and focuses on total supply chain management from the forecast requirement through to parts on the production line. With its industry-leading forecasting expertise, Farsound consistently achieves 99.5% product availability for its customers. Sterling, based in Toronto, Canada has a very strong reputation for excellent customer service and is well reputed in the aerospace industry. As a distributor of high-strength and high-temperature fasteners used in gas turbine engines, Sterling has a broad portfolio of customers across aerospace and power generation. The company is also an approved distributor for OEMs, such as Rolls-Royce and Siemens, and works closely with OEMs and their sub-tiers to deliver reliable and cost-effective supply solutions.



Ryanair Crew

Photo: Ryanair


**Ryanair** has signed its third cabin crew union recognition agreement with **Ver.di Union** on July 19. Ver.di will now be the representative body for all directly employed cabin crew operating on Ryanair aircraft in Germany. This cabin crew recognition agreement follows extensive negotiations with Ver.di and covers the German market. This agreement follows Ryanair's first cabin crew recognition deal with the Italian **ANPAC/ANPAV unions** and second cabin crew agreement with the **UNITE union** in the UK.

### SIA Engineering posts group profit of SG\$40.5 million for first quarter 2018-19

SIA Engineering Group has recorded a profit attributable to owners of the parent of SG\$40.5 million for the quarter ended June 30, 2018, an increase of SG\$3.8 million or 10.4%, mainly

from an increase in the share of profits of associated and joint venture companies, partially offset by a decrease in operating profit. Operating profit of SG\$10.2 million was SG\$8.5 million or 45.5% lower than the same quarter last year. Revenue at SG\$257.7 million was SG\$15.1

million or 5.5% lower year-on-year, mainly due to lower airframe and fleet management revenue. Expenditure decreased year-on-year by SG\$6.6 million or 2.6% to SG\$247.5 million, mainly due to an exchange gain of SG\$2.8 million in the current quarter against an exchange



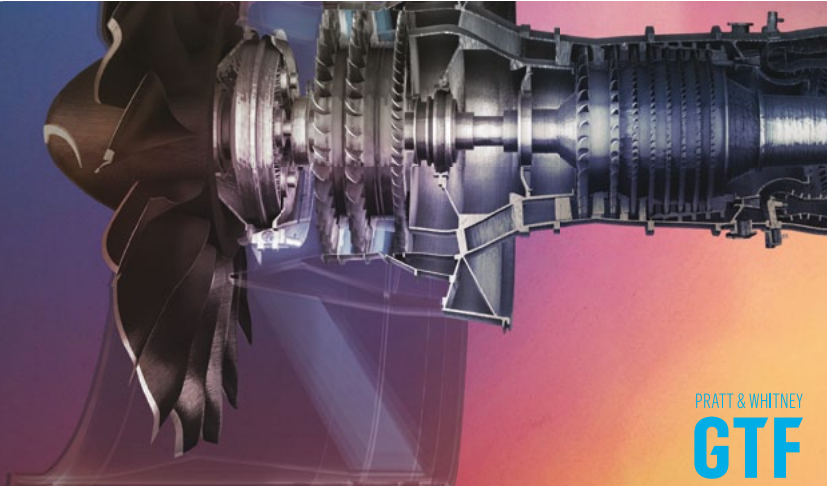
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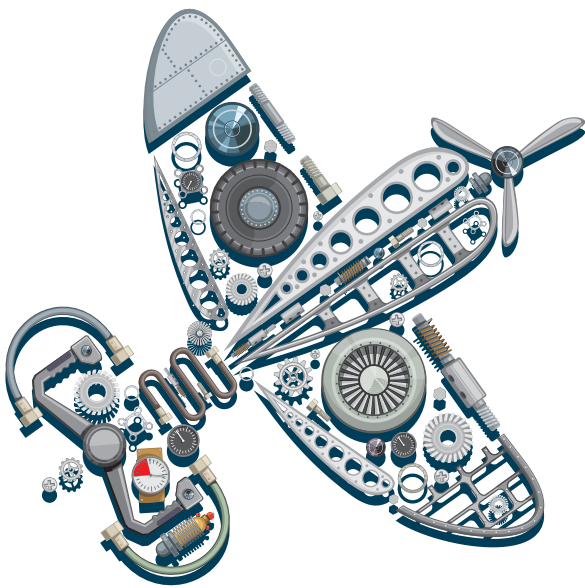
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## FINANCIAL NEWS

loss of SG\$1.8 million in the same quarter last year, and lower subcontract services costs. Share of profits of associated and joint venture companies increased by SG\$11.3 million or 53.6% to SG\$32.4 million, contributed to by an SG\$11.8 million increase in share of profits from the engine and component centers. Basic earnings per share was 3.62 cents for the current quarter. (US\$1.00 = SG\$1.37 at time of publication.)

## OTHER NEWS

**GE Aviation** and **Teradata** have released that GE Aviation will become the exclusive provider of Teradata products and services for commercial aviation markets, providing the world's biggest airlines with a single, comprehensive framework that combines high-performance analytics in the cloud from Teradata with edge-connectivity services from GE Aviation. Teradata and GE Aviation previously announced a partnership to jointly provide products and services to commercial aviation markets. The two companies are extending this relationship to provide airlines with wide-ranging operational insights that power impactful business decisions. "We can provide the best analytic environment for airline customers by adding Teradata's powerful analytic solutions with built-in support for hybrid cloud environments," said John Mansfield, chief digital officer of GE Aviation. "This partnership enables us to bring a holistic framework of enterprise data and business solutions to airlines."

**FLYdocs**, the aviation data and records management software provider and global industry leader in managing the lease transfer of aircraft and assets, has released that **CDB Aviation Lease Finance DAC (CDB Aviation)**, a wholly owned Irish subsidiary of **China Development Bank Financial Leasing Co.**, has selected FLYdocs to provide the software and technical services to manage its commercial fleet. Following a comprehensive RFP process late in 2017, the FLYdocs platform

was selected to underpin and streamline CDB Aviation's asset management function, along with supporting technical services from FLYdocs' aviation experts to assist in the data migration and records build for an initial 100 aircraft. The complete fleet will eventually be managed within the platform, with the first fully digital aircraft transition enabled by the FLYdocs platform due

in Autumn 2018.

**Boeing** has awarded **GE Aviation** a contract for avionics systems on the AH-64 Apache. The contract includes hardware delivery of the pylon interface unit, load maintenance panel and maintenance data recorders for the AH-64. Deliveries



Air Nostrum and CityJet join forces

Photo: AirTeamImages

**Air Nostrum** and **CityJet** have signed a Heads of Terms with the aim of bringing about closer co-operation between the two airlines under the umbrella of a new holding company. Such a development will be subject to obtaining the requisite regulatory approvals and the preparation of the relevant filings has begun. The coming together of these two regional airlines would see the creation of the largest pan-European regional airline group. Air Nostrum, which employs 1,450 people, is especially well known as the Regional Operator for Iberia under a longstanding franchise agreement, flying to more than 60 destinations within Europe and Africa, with a fleet of 50 aircraft, including 30 Bombardier CRJ1000 regional jets. Air Nostrum is also active on wet lease services for customers across Europe, including **Lufthansa**, **SAS**, **Binter** and **Croatian Airlines**. CityJet employs 1,250 people across nine European countries and operates an extensive regional network of services under wet lease contracts with **Air France**, **Brussels Airlines** and **SAS** with a fleet of over 40 aircraft based in nine locations across Europe. This fleet includes 22 new Bombardier CRJ900 regional jets acquired specifically for wet-lease services. The two airlines are coincidentally of very similar age, having been founded in 1993 (CityJet) and 1994 (Air Nostrum), both now being close to their 25th year of operation. It is this combined span of experience that gives Air Nostrum and CityJet the enthusiasm and energy to move forward to consolidate their respective reservoirs of specialist knowledge and skilled resources into a single group pool of considerable depth.

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## OTHER NEWS

began in May 2018 and will continue through to December 2022. GE Aviation's advanced avionics systems provides a high-performance, networked, data acquisition system to support the download, monitoring and analysis of data and will be the primary interface between the aircraft and the electronics for the AH-64 groundcrew.

**Austrian Airlines** has renewed and expanded an agreement with **GE Aviation** to provide electronic Flight Operations Quality Assurance (eFOQA) software and technologies across its fleet of more than 80 aircraft. "We value Austrian Airlines' commitment to innovation and quality," said Adam Ward, European executive for GE Aviation. "Austrian is one of the early users of our eFOQA software and has been a customer since 2005. The extended functionality will enable the airline to better manage operations with flight analytics as its fleet continues to grow." GE Aviation's eFOQA service uses flight data generated by the aircraft and its systems and applies proprietary data management and analytics technology to help Austrian Airlines better manage its fleet, providing previously unavailable insight into its operations.

**Liebherr-Aerospace** is collaborating with **Airbus** to launch new pilot projects on the new aviation data platform, Skywise. Liebherr-Aerospace and Airbus embarked on a series of pilot projects to assess the potential of big data coupled with the knowledge of Liebherr-Aerospace. The pilots were powered by Skywise, the secure cloud-based platform launched during the Paris Air Show in June 2017. Based on the success of the pilots, Airbus and Liebherr-Aerospace are now exploring opportunities to expand to additional fields of investigation. Skywise, developed jointly by Airbus and Palantir Technologies, brings together a wide range of aircraft data in a platform with tools for holistic analysis. In the pilots, Liebherr-Aerospace and Airbus used Skywise to develop a deeper and better understanding of the in-service behavior of on-board systems and components developed, manufactured, certified and serviced by Liebherr. This data-backed understanding and enhanced know-how, powered by Skywise, will allow Liebherr-Aerospace to issue updated operational recommendations to Airbus and Airbus' airline customers in order to optimize aircraft operation and significantly reduce operating costs. By leveraging Liebherr-Aerospace experts in data analytics and the breadth of data contained in the Skywise platform, this pilot demonstrated how expert analysis could surface previously unknown relationships and how those relationships can be used to build and operate equipment in a more reliable manner.

## Recommended Events



+44 (0) 1342 324303  
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everest@everestevents.co.uk

### Engine Leasing Seminar

September 18, 2018 – Copthorne Tara Hotel, Kensington, London, UK

### Transactional Support & Risk Management Seminar, London

September 19, 2018 – Copthorne Tara Hotel, Kensington, London, UK

### MRO Europe

October 16 - 18, 2018 – Amsterdam

### Aircraft Economic Life Summit 2018

November 20, 2018 – Gibson Hotel, Dublin, Ireland

[Click here for more aviation events](#)

**Royal Air Maroc** selected **GE Aviation's** Digital Solutions business for AirVault Records Management System for its fleet of more than 55 Boeing 737, 767, 787, 747, ATR and Embraer E-190 aircraft. The AirVault Records Management System will be a mission-critical, cloud-based electronic document management system designed to manage the digital content and bi-directional processes of aircraft maintenance records for the world's largest airlines.

**Václav Havel Airport Prague** served 7,463,975 passengers in the first half of 2018, which means a 10% increase compared to the same period last year. As usual, the largest number of passengers traveling from Prague went to the UK. The country with the highest increase in the number of checked-in passengers was Spain and for individual destinations, it was Barcelona. The largest number of travelers over the first six months of the year flew to London, which meant a 6% inter-annual increase in the number of checked-in passengers. Paris came second, followed by Moscow, Amsterdam and Milan. The fastest growing destination in terms of passenger count was Barcelona (+51 %) thanks to the substantially increased number of flights. As for countries, UK ranked first with 12% growth, followed by Italy, Russia, Germany and France. The record holder of countries in terms of increased checked-in passengers is Spain (+40%). New destinations are planned for the winter season of 2018. These include new Ryanair flights to Marrakesh, Paris/Beauvais, Eilat, Pisa and Amman; a new EasyJet flight to Belfast and a higher number of British Airways flights to London/Heathrow.

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

**Editor**  
Heike Tamm  
editor@avitrader.com  
Tel: +34 (0) 971 612 130

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

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



**Commercial Jet Aircraft**

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
A319-100	ORIX Aviation	V2522-A5	1604	2001	Q1/2019	Sale	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A319-100	ORIX Aviation	V2522-A5	1445	2001	Q4/2019	Sale	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A319-100	Fortress Investment Group	V2500-A5	2568		Q4/2018	Lease	Jeff Lewis	jlewis@fortress.com	+1 (305) 833-0309
A320-200	Castlelake	V2527-A5	2692	2006	Q4/2018	Lease	Michael Hackett	Michael.hackett@castlelake.com	+44 20 7190 6120
A320-200	Castlelake	V2527-A5	2288	2003	Q4/2018	Lease	Michael Hackett	Michael.hackett@castlelake.com	+44 20 7190 6120
A320-200	Castlelake	V2527-A5	2161	2003	Q1/2019	Lease	Michael Hackett	Michael.hackett@castlelake.com	+44 20 7190 6120
A320-200	Fortress Investment Group	V2500-A5	1856		Q4/2018	Lease	Jeff Lewis	jlewis@fortress.com	+1 (305) 833-0309
B737-5H6	Bristol Associates	CFM56-3C1	26445	1992	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B737-700QC	Fortress Investment Group	CFM56-7	30184		Now	Lease	Jeff Lewis	jlewis@fortress.com	+1 (305) 833-0309
B737-800	ORIX Aviation	CFM56-7B24E	40317	2012	Q4/2019	Sale / Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
B737-800	ORIX Aviation	CFM56-7B24E	40287	2012	Q1/2019	Sale / Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
B737-800	ORIX Aviation	CFM56-7B26/3	38015	2011	Q1/2019	Sale / Lease	Cian Coakley	Cian.Coakley@orixaviation.hk	+852 9178 8055
B737-800	Magnetic MRO	CFM56-7B26	28621	2000	Now	Sale	Alexey Ivanov	alexey.ivanov@magneticmro.com	+7 (910) 443-55-18
B747-400	Bristol Associates		28812	1999	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B747-400	Bristol Associates		30023	2000	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B747-400	GA Telesis	RB211-524	26637	1992	Now	Sale	Eddo Weijer	eweijer@gatelesis.com	+1 954 676 3111
B747-400	GA Telesis	PW4000	29950	2000	Now	Sale	Stuart Weinroth	sweinroth@gatelesis.com	+1 954 676 3111
B757-223 (7x)	Jetran	RB211-535E4B	various	91/92	Now	Lease	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
B777-200ER	GA Telesis		28999		Now	Sale	Stuart Weinroth	sweinroth@gatelesis.com	+1 954 676 3111
B777-200ER	GA Telesis		28523		Now	Sale	Stuart Weinroth	sweinroth@gatelesis.com	+1 954 676 3111

**Regional Jet / Turboprop Aircraft**

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
ATR72-500F	Castlelake	PW100-127F	0585	1999	Now	Sale	Michael Hackett	Michael.hackett@castlelake.com	+442071906120
CRJ-200LR	Regional One	CF34-3B1	7369	2000	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
CRJ-700	Regional One	CF34-8C5B1	10205	2005	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
CRJ-900LR	Regional One	CF34-8C5	15111	2007	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
DASH8-311	Regional One	PW123B	323	1992	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
DASH8-311	Regional One	PW123B	325	1992	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
Do328-100	Jetran	PW119B	3049	1996	Now	Sale	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
Do328-110	Jetran	PW119B	3024	1994	Now	Sale	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
Do328-110	Jetran	PW119B	3034	1995	Now	Sale	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
ERJ-170LR	AerFin	CF34-8E	1700123		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-145	Regional One	AE3007A1P	145291	2000	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
ERJ-145	Regional One	AE3007A1P	145768	2003	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
SF340B	C&L Aviation Group	CT7-9B	194	1990	Now	Sale / Lease	Fred Dibble	fred.d@cla.aero	+1 207-217-6128
SF340B+	C&L Aviation Group	CT7-9B	425	1997	Now	Sale	Donald Kamenz	donald.k@cla.aero	+1 207-217-6259
Saab 340B+	C&L Aviation Group	CT7-9B	368	1994	Now	Sale	Donald Kamenz	donald.k@cla.aero	+1 207-217-6259
SF340A Cargo	C&L Aviation Group	CT7-5A	046	1986	Now	Sale	Fred Dibble	fred.d@cla.aero	+1 207-217-6128

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**Commerical Engines**

Multiple Types	Sale / Lease	Company	Contact	Email	Phone
Multiple Engines GE / CFM / RB211	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
AE3007 Engines	Sale / Lease	Company	Contact	Email	Phone
(3) AE3007A1P	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 786-623-3936
(1) AE3007A1	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Ben Ferguson	Benjamin.ferguson@rolls-royce.com	+44 7807 969 372
(2) AE3007	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1 954 676 3111
CF34 Engines	Sale / Lease	Company	Contact	Email	Phone
CF34-8E5	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
CF34-10E	Now - Lease				
CF34-8C	Now - Lease				
CF34-3B1	Now - Lease				
CF34-3A	Now - Sale / Lease				
(2) CF34-8C5B1	Now - Sale / Lease	Regional One	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext. 164
(1) CF34-3B1	Now - Sale / Lease				
(1) CF34-10E5A1	Now - Sale / Lease	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(1) CF34-3B1	Now - Sale				
(1) CF34-8E5A1	Now - Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) CF34-10E5	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CF34-10E6	Now - Lease				
(1) CF34-10E7	Now - Lease				
CF34-8E(s)	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1 (513) 782-4272
(1) CF34-10E6	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
(1) CF34-10E5A1	Now - Lease				
CF6 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CF6-80C2B1F	Now - Lease	TrueAero	Chris Luke	cluke@trueaero.com	+1 (772) 783 2300
(1) CF6-80C2B7F	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(5) CF6-80C2B1F	Now - Sale			aircrafttrading@gatelesis.com	
CFM Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CFM56-3C1	Now - Sale / Lease	Royal Aero	Calum MacLeod	calum@royalaero.com	+49 8025 993610
(1) CFM56-7B24	Now - Lease	Fortress Investment Group	Tom McFarland	tmcfarland@fortress.com	
(2) CFM56-5B	Now - Sale / Lease	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(2) CFM56-7B26	Now - Sale				
(2) CFM56-7B26	Now - Sale / Lease	Magnetic MRO	Alexey Ivanov	Alexey.Ivanov@magneticmro.com	
(1) CFM56-7B-24	Now - Sale / Lease				
(1) CFM56-7B27/B1	Now - Sale / Lease				
(1) CFM56-7B26/E	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CFM56-7B26/3	Now - Lease				
(1) CFM56-7B27	Now - Lease				
(2) CFM56-5A	Now - Sale	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272



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**Commerical Engines (cont.)**

(1) CFM56-5B	Now - Sale / Lease	AerFin	Oliver James	Oliver.James@aerfin.com	+44 (0) 7930463293
(1) CFM56-5B	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@werner aero.com	+1-703-402-7430
(1) CFM56-7B	Now - Sale/Lease/Exch.				
(1) CFM56-5B3/P	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) CFM56-7B26	Now - Sale / Lease				
(1) CFM56-7B26	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
(1) CFM56-7B24/3	Soon - Lease				
<b>CT7 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
CT7-9B	Sale	C&L Aviation Group	Martin Cooper	martin.c@cla.aero	+1 207-217-6106
<b>JT8D and JT9D Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) JT8D-219	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1 954 676 3111
(1) JT8D-217C	Now - Sale	AZURE RESOURCES INC.	Jeff Young	jeff@azureres.com	1-954-249-7935
<b>GENx Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(2) GENx	Soon - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
<b>LEAP Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(2) LEAP-1A33	Soon - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
(1) LEAP-1B28	Soon - Lease				
<b>PW Small Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) PW121	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) PW123B/D/E	Now - Sale / Lease				
(1) PW124B	Now - Sale / Lease				
(1) PW127E/F/M	Now - Sale / Lease				
(1) PW150A	Now - Sale / Lease				
(2) PW121 (ATR)	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	leasing@willislease.com	+1 415 516 4837
(2) PW121-8	Now - Sale/Lease/Exch.				
(1) PW123	Now - Sale/Lease/Exch.				
(1) PW127	Now - Sale/Lease/Exch.				
(2) PW150A	Now - Sale/Lease/Exch.				
(1) PW127M	Now - Sale/Lease/Exch.				
(2) PW127F	Now - Sale/Lease/Exch.				
(2) PW124B	Now - Sale/Lease/Exch.				
(1) PW120A	Now - Sale / Lease	Regional One	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
(1) PW120	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) PW123E	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(4) PW126	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) PW121	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
PW119B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
PW119B	Now - Lease				
PW120A	Now - Lease				
PW121 (ATR)	Now - Lease				
PW124B	Now - Lease				
PW123B	Now - Lease				
PW125B	Now - Lease				
PW127F	Now - Lease				
PW150A	Now - Lease				
PW127M	Now - Lease				
PW150A RGB	Now - Lease				
PW127	Sale	C&L Aviation Group	Martin Cooper	martin.c@cla.aero	+1 207-217-6106
(1) PW124B	Now - Sale/Lease/Exch.	Logix Aero	Jean-Christian Morin	jcmorin@logix.aero	+33.6.4782.4262
(2) PW127E/F			Remi Kry	rkry@logix.aero	+33.6.2079.1039
(4) PW127M					
(1) PW120 / PW121	Now - Sale / Lease	Royal Aero	Calum MacLeod	calum@royalaero.com	+49 8025 993610
<b>PW4000 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(2) PW4056-1	Now - Sale/Lease/Exch.	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(1) PW4056-3	Now - Lease	Fortress Investment Group	Tom McFarland	tmcfarland@fortress.com	
(1) PW4168A	Soon - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742

**Commerical Engines (cont.)**

(1) PW4056-3	Now - Sale/Lease	Jet Midwest	Kevin Lee	engines@jetmidwest.com	+1-310-652-0296
<b>RB211 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) RB211-535	Now - Sale / Lease	Jet Midwest	Dave Williams	dave.williams@jetmidwest.com	+1-817-791-4930
<b>Trent Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(3) Trent 800	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(2) Trent 892	Now - Sale / Lease	TrueAero, LLC.	Matt Parker	mparker@trueaero.com	+1 469-607-6110
(4) Trent 556	Now - Sale / Lease				
(1) Trent 772B	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Ben Ferguson	Benjamin.ferguson@rolls-royce.com	+44 7807 969 372
<b>V2500 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) (2) V2533-A5	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Ben Ferguson	Benjamin.ferguson@rolls-royce.com	+44 7807 969 372
(1) V2527-A5	Soon - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
(1) V2533-A5	Soon - Lease				
(1) V2533-A5	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@werner aero.com	+1-703-402-7430

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

Description		Company	Contact	Email	Phone
(1) A320-200 Landing Gear	Now - Sale	TrueAero, LLC	Matt Parker	mparker@trueaero.com	+1 469-607-6110
(1) A330-300 Landing Gear	Now - Sale				
(2) A340-600 Landing Gear	Now - Sale				
(1) A340-300 Landing Gear	Now - Sale				
(2) GTCP331-500	Now - Sale				
(2) GTCP331-500B	Now - Sale/Lease/Exch.				
(1) APS 3200	Now - Sale/Lease/Exch.				
767-300ER 413K, 737-300 LANDING GEAR	Now - Sale/Lease/Exch.	AZURE RESOURCES INC.	Jeff Young	jeff@azureres.com	1-954-249-7935
GTCP36-300A, GTCP85-98DHF APU	Now - Sale/Lease/Exch.				
A320 Nose Landing Gear	Now - Sale/Lease/Exch.				
CFM56-3 LPT MODULE, REPAIRED	Now - Sale/Lease/Exch.				
CFM56-3 ENGINE STAND	Now - Lease				
(1) GTCP36-150RJ, (2) GTCP36-100M,	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) RE220RJ, (1) PW126 RGB, (1) PW901A					
(1) APS1000-C12, (1) APS1000-C3					
GTCP131-9A (2), GTCP131-9B(2)	Now - Lease	REVIMA APU	Olivier Hy	olivier.hy@revima-apu.com	+33(0)235563515
GTCP331-200, GTCP331-250	Now - Lease				
APS500C14(3), APS1000C12(2), APS2000	Now - Lease				
APS2300, APS3200(2), APS5000(2)	Now - Lease				
PW901A(4), PW901C(2)	Now - Sale / Lease				
TSCP700-4E	Now - Sale				
Neutral CFM56-5B & CFM56-7B QEC Kits	Now - Sale	CFM Materials	Michael Arellano	michael.arellano@cfmmaterials.com	+1 214-988-6676
(multiple) APS2300, (1) GTCP331-350C	Now - Sale / Lease	AirFin	Nick Filce	Nick.Filce@aerfin.com	+44 7770 618 791
(1) GTCP36-300A, (1) GTCP131-9A					
GTCP131-9A, GTCP131-9B, GTCP331-350C	Now - Sale/Lease/Exch.	Logix.Aero	Jean-Christian Morin	jcmorin@logix.aero	+33.6.4782.4262
GTCP331-500B, GTCP331-200/250,			Rich Lewsley	rlsley@logix.aero	+44.79.0021.8657
APS3200, APS2300, GTCP85-129H					
APU GTCP 331-500	Soon - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
Engine stands now available	Now - Lease				
(2) GTCP131-9B, (2) GTCP131-9A	Now - Sale / Lease	GA Telesis	Dave Dicken	ddicken@gatelesis.com	+1 954-676-3111
ENGINE STANDS: Trent 800, PW4000 112"/V2500		National Aero Stands		support@stands.aero	+ 1 305-558-8973
/ CFM56/ PW2000 & Bootstrap kits					
GTCP131-9A, GTCP 131-9B	Now - Sale / Lease	Werner Aero Services	Julien Levy	jlevy@Werner aero.com	+1 201-674-9999
GTCP36-300A, 737-800 Winglets	Now - Sale / Lease				
737-700 & 737-800 Landing Gear	Now - Sale / Lease				
767-300 Winglets, LH-RH P/N 767-0010-5, -6, -7 & -8, SV- Now Sale		Reliance Aircraft	Terry Hix	thix@relianceaircraft.com	+1 512-439-6988
(2) PW901A, (1) PW901C(1), PW125B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368