

## ***Brèves de l'industrie aérospatiale – 4 avril 2022***

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### **Industrie Aérospatiale**

#### **Liebherr-Aerospace (1 avril)**

Deutsche Aircraft a sélectionné Liebherr-Aerospace pour développer et fournir le système de commande des volets et spoilers pour le D328eco incluant l'électronique et le logiciel associé.

#### **De Havilland Canada (31 mars)**

De Havilland Canada has launched the De Havilland DHC-515 firefighting aircraft (formerly known as the CL-515). It is an upgraded version of the Canadair CL-215 and CL-415 aircraft. European customers have signed letters of intent to purchase the first 22 aircraft.

#### **Abu Dhabi Air Expo 2022 (31 mars)**

Abu Dhabi Air Expo 2022 is to be held on 1-3 November 2022 at Al Bateen Executive Airport in Abu Dhabi, UAE. The organisers expect the 80,000m<sup>2</sup> (861,112.8ft<sup>2</sup>) exhibition to attract 18,000 visitors and host more than 300 manufacturers and suppliers.

#### **PowerJet (30 mars)**

PowerJet (Russian NPO Saturn / Safran) has terminated its engine maintenance and repair services for its SaM146 engine that powers the Sukhoi Superjet 100. This follows the international sanctions against Russia that include the supply of spare parts and technical support for the SaM146.

#### **Airbus A220 Mirabel (29 mars)**

Airbus has unveiled an additional 125,000 ft<sup>2</sup> (11,600 m<sup>2</sup>) area to support the A220 production rate increase, which is expected to more than double in the next few years. It is Airbus' first pre-assembly zone ("pre-FAL") outside Europe. Airbus Canada's A220 site in Mirabel now comprises close to 1.4 million ft<sup>2</sup> (130,000 m<sup>2</sup>) with 2,500 employees.

#### **Boeing (29 mars)**

The Defense Logistics Agency Aviation, Oklahoma City has awarded Boeing a contract for horizontal stabilizers for KC-135 in-flight refuelling aircraft. Valued at \$122.7 million, the contract is expected to be completed by April 2028.

#### **Triumph Group (29 mars)**

Triumph Group will produce all equipment for the main rotor blade folding system, main rotor lag damper system and main rotor brake system of the Sikorsky CH-53K helicopter. Sikorsky will deliver 200 aircraft under the CH-53K program of record.

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### **Boeing/Airbus Helicopters (28 mars)**

Boeing and Airbus Helicopters have signed an MOU for in-service support of the H-47 Chinook on offer for Germany's Schwerer Transporthubschrauber (STH) heavy-lift helicopter program.

## **Aviation Commerciale**

### **ASL Aviation Holdings (ASL) (1 avril)**

ASL Aviation Holdings (ASL) has placed 10 firm orders and 10 options for Boeing B-737/800 Converted Freighters, bringing ASL's total 737-800BCF orders and commitments with Boeing to 40 aircraft.

### **Association « Airlines For Europe » (A4E) (1 avril)**

Les compagnies membres de « Airlines For Europe » (A4E) sont optimistes pour la saison estivale car l'offre de sièges des compagnies européennes est revenue à 86% du niveau de 2019.

### **United Airlines (29 mars)**

United Airlines and Oxy Low Carbon Ventures are collaborating with Houston-based biotech firm Cemvita Factory to commercialize the production of sustainable aviation fuel through a process using carbon dioxide and synthetic microbes.

### **Compagnies aériennes russes (29 mars)**

Selon IBA, 394 avions appartenant à des loueurs étrangers sur un total de 509 continuaient d'être exploités en Russie. Les compagnies russes ont vu leurs activités s'effondrer; Aeroflot est passé de 118 vols quotidiens en moyenne avant la guerre à seulement 13.

### **Aeromexico (25 mars)**

Aeromexico will lease seven new Boeing 737-9s and two 737-8s to support a fleet expansion as the company reorganizes.

### **Alaska Airlines (24 mars)**

Alaska Airlines will simplify its fleet, becoming an all-Boeing operator at the mainline level by the end of 2023. Regional subsidiary Horizon Air will operate only Embraer E-175 aircraft.

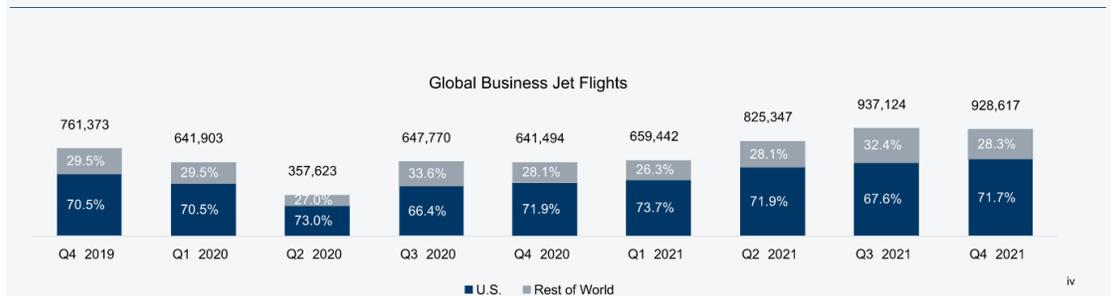
## **Aviation d'affaires**

### **Global Jet Capital / Q4 2021 Market Report**

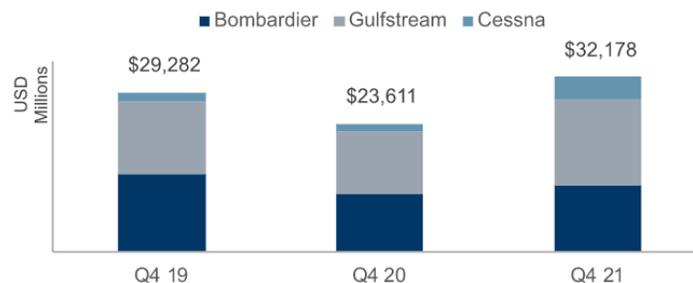
The entry of new customers into the market caused business jet flight operations to increase substantially compared to the same period in 2020 and 2019. The industry-wide book-to-bill ratio was 1.3 to 1 and backlogs increased to \$32.2 billion, a 36.3 percent increase over 2021.

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## FLIGHT OPERATIONS



## Q4 Backlog at Major Business Jet OEMs



Dassault and Embraer have not reported as of publication.

### Vista Global (31 mars)

Vista Global Holding (Vista) will acquire the private aviation services platform of Jet Edge, the fastest-growing North American charter operator. Vista expects the transaction to be completed in Q2 2022 with its fleet availability expanding to approximately 350 aircraft.

### Piaggio (31 mars)

The sale of Piaggio Aero Industries and Piaggio Aviation has entered a new phase with the selection of five new companies approved to perform due diligence.

### Bombardier - VistaJet (29 mars)

Bombardier and VistaGlobal subsidiary VistaJet have celebrated Bombardier's delivery of the 100<sup>th</sup> Global 7500 and VistaJet's 10th, making it the largest operator of Global 7500 aircraft.

### Global Medical Response GrandView Aviation (29 mars)

Global Medical Response (GMR), the parent of AirMed International, has acquired the assets of charter operator GrandView Aviation including its fleet of Embraer Phenom 300 light jets.

### Bombardier / Learjet (28 mars)

Bombardier has delivered the final Learjet 75 to Northern Jet Management.

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### **Bombardier-Sanctions Russie (28 mars)**

Bombardier expects to backfill order cancellations resulting from the sanctions on activities with Russian clients. Bombardier stated that Russia represented about 5 percent of its sales.

## **Défense**

### **Leonardo (31 mars)**

Leonardo is offering its twin-engine multi-role military AW149 helicopter for the UK MoD's New Medium Helicopter (NMH) requirement. If successful, the company has committed to add a second AW149 final assembly line at its Yeovil site.

### **General Atomics (30 mars)**

General Atomics Aeronautical Systems (GAAS) has received a \$585.04 million contract to support U.S. Customs and Border Protection operations and maintenance of the MQ-9B Predator B and Guardian UAVs. GAAS will also provide replacement aircraft and spares.

### **United States Air Force (USAF) / Boeing (29 mars)**

The USAF may not hold a competition for its next class of aerial refueling tankers (KC-Y) and may procure an additional 179 KC-46s (\$35 billion) instead. Lockheed Martin and Airbus have formed a partnership to offer a modified A330 airliner (LMXT) for KC-Y.

### **Canada / Lockheed Martin F35 (28 mars)**

Canada has announced plans to buy 88 Lockheed Martin F-35 combat aircraft (C\$19 billion) to replace the Royal Canadian Air Force's aging CF-18 fleet, with deliveries to start as early as 2025.

### **Turkish defense firms /DIMDEX 2022 (24 mars)**

More than 30 Turkish defense firms attended the Doha International Maritime Defense Exhibition and Conference, the largest national presence. Aerospace firms like Turkish Aerospace Industries and engineering companies such as STM attended, revealing new designs.

## **MRO**

### **BAE Systems / Babcock International (30 mars)**

BAE Systems with Babcock International, has been awarded an 11-year contract (£590 million) to continue support to the UK Royal Air Force Hawk fleet. This will include availability support to the Hawk T2 trainer fleet as well as deep maintenance for the Red Arrows display team aircraft.

### **Jet Maintenance International (JMI) (30 mars)**

Jet Maintenance International (JMI) is now an authorized service center for Williams International FJ44 engine variants that power Cessna Citation CJ-series twinjets. JMI offers line maintenance support for Citations at London Oxford and Biggin Hill airports and is an FAA repair station for U.S.-registered Citations.

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**Revima (28 mars)**

Bamboo Airways has selected Revima for its A320 & A320 landing gear overhauls, to be performed at Revima's new facility located in Chonburi, Thailand.

**Drones - Advanced Air Mobility**

**European Union Aviation Safety Agency (EASA) (30 mars)**

The European Union Aviation Safety Agency (EASA) has published the "Prototype Technical Design Specifications for Vertiports" (PTS-VPT-DSN). This document provides guidance to all stakeholders to facilitate the safe design of vertiports for future eVTOL operations.

**FedEx Express (30 mars)**

FedEx Express, the regional subsidiary of FedEx Corp., has signed a partnership agreement with Elroy Air for flight-testing of its eVTOL air cargo system for middle-mile logistics operations.

**Wingcopter (29 mars)**

Wingcopter has entered into a strategic partnership with Japanese general trading company ITOCHU Corporation. ITOCHU will invest in Wingcopter and also distribute and lease the Wingcopter 198 delivery drone in Japan.

**Crane Aerospace & Electronics /Bye Aerospace (25 mars)**

Crane Aerospace & Electronics will provide its new High Voltage DC-DC Converter to Bye Aerospace to equip its eFlyer 2 series of electric aircraft.

**Embraer (23 mars)**

Iris Automation, a specialist in flight safety avionics including detect-and-avoid systems for UAVs and for general aviation, has partnered with Embraer on its Autonomous Systems Project EASy.

**Spatial**

**Northrop Grumman/ Lockheed Martin (31 mars)**

Northrop Grumman and Lockheed Martin successfully performed the final full-scale ground test of the abort motor for NASA's Orion spacecraft Launch Abort System (LAS). The abort motor is one of three motors comprising the LAS that is attached to the Orion spacecraft which is launched by NASA's Space Launch System (SLS) rocket.

**Boeing (30 mars)**

Boeing unveiled its new factory for small satellites, a 30,000-square-foot section of its space manufacturing hub in El Segundo, Calif. Boeing's subsidiary Millennium Space Systems will operate the new production line as it has experience in environmental testing of small satellites.

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### **Thales Alenia Space (TAS) (27 mars)**

TAS a signé un contrat avec l'opérateur luxembourgeois SES, pour fournir un « Space Inspire », satellite de nouvelle génération doté d'une charge utile numérique et reprogrammable. Avec ce nouveau satellite, l'opérateur va étendre ses services de connectivité en Europe, en Afrique et en Asie. Ces satellites seront mis en service entre 2024 et 2025.

### **Ursa Major (25 mars)**

Rocket developer Ursa Major has delivered its first two Hadley engines to two different commercial customers, space company Phantom Space and hypersonic vehicle developer Stratolaunch. Hadley is an oxygen-rich staged combustion engine, development of which started in 2015. It is now in full production with 30 expected to be delivered this year.

### **The European Space Agency (ESA) / Sener Aeroespacial (24 mars)**

ESA has awarded Sener Aeroespacial the AERIAL project to design an unmanned aerial vehicle capable of flying in the low density, pressure, and temperature of the Martian atmosphere. AERIAL is the European proposal to increase and improve the capabilities of classic ground exploration vehicles (rovers).

## **Innovation**

### **Safran / ThermoPlastic Composites Research Center (TPRC) (31 mars)**

Safran has joined the ThermoPlastic Composites Research Center (TPRC), a Dutch research development and innovation centre for thermoplastic composite technology. Composite materials have already led to lighter structures in LEAP engines contributing to a reduction in fuel consumption by a claimed 15% from that of the CFM-56.

### **Airbus /SAF (28 mars)**

Airbus has flown an A380 powered by 100 percent sustainable aviation fuel (SAF) in one of its Rolls-Royce Trent 900 engines. The A380 thus became the third Airbus type to fly on 100 percent SAF after the Airbus A350 and A319neo.

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