

Brèves de l'industrie aérospatiale – 4 juillet 2022

Industrie Aérospatiale

Moteurs d'avions de ligne

Rank	Manufacturer	2021 deliveries		Backlog	
		Engines	Share	Engines	Share
1	CFM International	1,066	59%	13,100	54%
2	Pratt & Whitney	478	26%	4,128	17%
3	Rolls-Royce	146	8%	1,670	7%
4	GE Aviation	122	7%	1,528	6%
	Undecided			3,810	16%
	Total	1,812		24,236	

Source: Cirium fleets data. Notes: At 31 December 2021. Data for installed engines based on Airbus/Boeing types. Excludes corporate and military operators

Airbus/Boeing fleet by manufacturer

Manufacturer	Airbus	Boeing	Total
CFM International	5,311	8,042	13,353
GE Aviation	402	2,967	3,369
International Aero Engines	2,989	4	2,993
Rolls-Royce	1,543	1,174	2,717
Pratt & Whitney	1,463	1,224	2,687
Engine Alliance	127	0	127
Total	11,835	13,411	25,246

Source: Cirium fleets data. Notes: In-service and parked fleet at 31 December 2021. Boeing data includes former MDC types. Excludes corporate and military operators. Data is number of aircraft

Airbus A320 neo (1 juillet)

China Eastern Airlines, China Southern Airlines and Air China have signed agreements with Airbus covering orders for a combined 292 A320neo aircraft, subject to formal shareholder approval. The deliveries are scheduled for the 2014-2017 timeframe.

Leonardo Helicopters AW149 (1 juillet)

Poland has finalised a contract valued at €1.76 billion with Leonardo subsidiary PZL-Swidnik for the supply of 32 Leonardo Helicopters AW149 medium twin helicopters.

Daher and Triumph Group (1 juillet)

Daher has completed the purchase from Triumph Group of its metallic and composite aerostructures assembly facility in Stuart, FL, which has 400 employees

Système de navigation aérienne (30 juin)

Le ministre des Transports a annoncé un montant de près de 105\$ m pour trois nouveaux projets avec NAV CANADA dans le cadre du Fonds national des corridors commerciaux :

- Jusqu'à 39,2\$ m pour fournir de nouvelles technologies afin d'améliorer la fiabilité, la sécurité et le rendement du réseau de transport aérien. NAV CANADA versera 59,7\$ m.
- Jusqu'à 34,5\$ m pour une technologie visant à permettre la mise en œuvre de services de gestion de la circulation des drones. NAV CANADA versera 50,7\$ m.
- Jusqu'à 31,2\$ m pour améliorer la technologie et l'infrastructure de quatre grands aéroports de Montréal, Toronto, Calgary et Vancouver. NAV CANADA versera 45,8\$ m.

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FLYING WHALES (30 juin)

FLYING WHALES, à l'origine du dirigeable LCA60T, accueille à son capital l'État français, via French Tech Souveraineté, piloté par le Secrétariat général pour l'investissement et opéré par Bpifrance, et la Principauté de Monaco, via la Société Nationale de Financement. Cette levée de fonds de 122 millions d'euros, été réalisée également auprès d'actionnaires historiques parmi lesquels le gouvernement du Québec, via Investissement Québec.

Boeing / new audit (29 juin)

The U.S. Department of Transportation's Office of the Inspector General will conduct an audit of the FAA's oversight of Boeing's 737 and 787 assembly lines in Renton, WA, and Charleston, SC, respectively. It will focus on Boeing's processes for identifying and resolving production issues and addressing allegations of unjustified pressure on employees.

Meggitt / Parker-Hannifin (29 juin)

Britain said national security concerns tied to Meggitt Plc's agreed £6.3 billion (\$7.7 billion) sale to US-based Parker-Hannifin Corp. have been resolved. Parker expects to complete the transaction in the third quarter of this year.

Duofu Group / Fama (29 juin)

Chinese firm Duofu Group's aviation unit has acquired Italian helicopter firm Fama. It also announced a 5 billion yuan-investment plan to build a complete aviation industrial chain from R&D to manufacturing, operations and in-service support. Duofu Aviation Industry Group will expand the capability of existing products and establish a helicopter engine design and R&D centre in Europe focussing on products such as UAVs and eVTOLs.

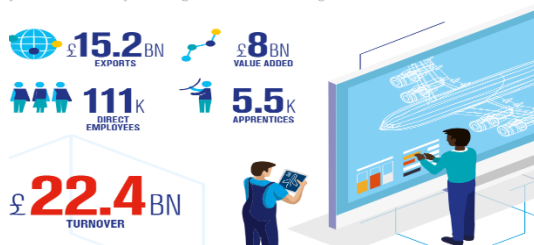
Haivision (28 juin)

Haivision has announced that its Makito X4 Rugged video encoder will be used in Diamond Aircraft's special mission fixed-wing aircraft, the DA62 MPP.

UK Aerospace Outlook 2022 (28 juin)

UK AEROSPACE SECTOR

The UK's aerospace sector is world-leading, generating well paid-jobs across the country and driving a sustainable future of flight.



The Aerospace sector directly employs 111,000 people and supports over 5,500 apprenticeships across the UK. In 2021 the UK exported £15.2bn and a total turnover of £22.4bn. Skills shortages, supply chain problems, and rising global inflation have constrained the sector's recovery. As of April 2022, production levels were 40.5 percent lower than they had been in February 2020.

Spirit Maroc - A220 (28 juin)

Spirit's Morocco facility has started producing A220 aft and forward fuselage sections and keel-beams. They are shipped to Spirit's Belfast, Northern Ireland factory for assembly.

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Aviation Commerciale

IAG (30 juin)

IAG (British Airways, Iberia, Aer Lingus and Vueling) is converting 14 options for A320neo family aircraft, dating from August 2013, into firm orders for 11 A320neos and three A321neos. The aircraft will be delivered in 2024 and 2025.

Air India Express -B737 (28 juin)

Budget airline Air India Express, owned by Tata Group, may add four Boeing 737 to its fleet of 24 aircraft by end of 2022.

Silk Way West Airlines - A350F (28 juin)

Silk Way West Airlines has signed an agreement with Airbus for the purchase of two A350 Freighters with delivery planned in 2027-2028. It also placed options for two additional aircraft.

Lufthansa - A380 (27 juin)

Deutsche Lufthansa AG will return the A380 to service next summer, reversing its pandemic-era decision to retire the aircraft as travel demand increases. The carrier is assessing how many 500-seat A380s will need to be reactivated and the routes that they should fly in summer 2023.

Aer Lingus / CDB Aviation (27 juin)

CDB Aviation, a subsidiary of China Development Bank Financial Leasing Co., has agreed to lease two Airbus A320neo aircraft to Aer Lingus, for delivery during this summer.

Jet Airways / Airbus (27 juin)

Airbus is said to be in a strong position for a \$5.5-billion order from Jet Airways for as many as 50 aircraft, which are likely to be A320neos and A220s.

Aviation d'affaires

Bombardier (30 juin)

Bombardier has opened its expanded service centre in Singapore, which quadruples the size of the original centre it opened in 2014.

LCI/Lobo Leasing (30 juin)

LCI (Libra Group) has acquired 19 helicopters (over US\$115 million) from Lobo Leasing. They include helicopter models from Airbus Helicopters, Bell, Leonardo and Sikorsky.

Bristow Group/Leonardo- P&W (30 juin)

Bristow Group Inc. has signed long-term maintenance support agreements with Leonardo Helicopters for its global fleet of AW139s, and with P&WC for its PT6-67 engines.

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Gulfstream (28 juin)

Gulfstream has announced that the ultra long-range Gulfstream G800 has made its first flight, officially launching the flight-test program.

Défense**Sweden FMV /Saab GlobalEye (30 juin)**

The Swedish Defence Materiel Administration (FMV) has ordered two Saab GlobalEye AEW&C aircraft (estimated value of \$710 million) with deliveries expected in 2027. It also placed options for two additional aircraft. The platform is the Bombardier Global 6000/6500.

Netherlands defence acquisitions (29 juin)

The Netherlands defence minister has outlined future spending priorities, including acquiring additional Lockheed Martin F-35As and General Atomics Aeronautical Systems MQ-9A Reaper unmanned air vehicles.

UK Defence Outlook 2022 (28 juin)

The UK's defence sector directly employs 147,000 people and supports over 6,000 apprenticeships. The UK is the second largest defence exporter in the world after the United States with £8.8bn in exports and £23.7bn turnover in 2021, a 14% increase over the last five years.

Lockheed Martin -Sikorsky (28 juin)

Sikorsky, a Lockheed Martin company, has been awarded a \$2.3 billion contract to produce 120 H-60M Black Hawk utility helicopters for the US Army with related support services for fiscal years 2022-2026, including options for an additional 135 aircraft.

MRO**Mammoth Freighters (30 juin)**

Mammoth Freighters (Florida) has contracted with Collins Aerospace for its cargo handling system, and with Triumph's Interiors business for composite air ducts, both for its 777 P2F conversion programme.

Metrojet (29 juin)

Metrojet Engineering Clark (MEC), Hong Kong-based Metrojet's MRO in the Philippines, has recently renewed its FAA Part 145 approval to perform line and base maintenance on the Gulfstream G450, G550, and G650/G650ER, as well as the Bombardier Challenger 300/350 and 604/605; and Bombardier Global Express, 5000, 6000, and 7500.

Heli-One's Poland MRO (29 juin)

Heli-One has achieved approval as a Continuing Airworthiness Management Organization (CAMO). Its Rzeszow facility in Poland has been approved by the country's civil aviation authority under the requirements of EASA's Part-M Subpart G CAMO regulations.

HAECO Group (27 juin)

HAECO Group is using 8tree's dentCHECK tool to upgrade its aircraft surface irregularity mapping process. HAECO Hong Kong and HAECO Americas are now utilizing dentCHECK's new programmed large area mapping capacity to radically reduce the time taken to inspect hail-damaged aircraft.

Aerocare Aviation Services/ Complete Aircraft Group (27 juin)

Complete Aircraft Group (CAG) of Exeter, England, has finalized its acquisition of MRO provider Aerocare Aviation Services (AAS), based at Hawarden Chester Airport in Wales. CAG and Aerocare see new business development opportunities for paintwork for Havilland Q400, ATR 72, Bombardier Challenger and Global.

Drones – Advanced Air Mobility

UPS/ Beta Technologies (29 juin)

UPS's first eVTOL cargo aircraft, from Beta Technologies, will be deployed starting in 2024 from UPS facilities in Louisville, KY, to deliver time-sensitive cargo in small and midsize markets.

Lilium /Astronics Corporation (29 juin)

Astronics Corporation has been selected by Lilium N.V. to design, develop, and build the Lilium Jet's electrical power distribution system. Astronics will be responsible for the secondary power distribution units (SPDUs) and charging power distribution units (CPDUs). Lilium Jets will have two SPDUs and one CPDU. SPDUs are responsible for high voltage (1000 VDC) to low voltage (28 VDC) conversion and for low voltage distribution and protection.

Schiebel/Nordic Unmanned (29 juin)

Schiebel, together with its partner Nordic Unmanned, successfully demonstrated to Norwegian energy company Equinor the onshore capabilities of the S-100 UAS, proving its utility for offshore logistics. The three-week test program involved cargo deliveries between installations at the Gullfaks field and multiple daily flights between offshore facilities and vessels in the Tampen area.

Spatial

NASA / Lunar Gateway (30 juin)

Le démonstrateur Capstone (Cislunar Autonomous Positioning System Technology Operations and Navigation Experiment) de la NASA a été lancé et devrait atteindre la Lune dans 4 mois. Il doit ouvrir la voie à l'installation du Lunar Gateway et doit notamment permettre de valider la stabilité de l'orbite de la future station Gateway.

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Canadian CubeSat Project - CCP (28 juin)

Canadian students from Dalhousie University and the University of Victoria who are participating in the Canadian CubeSat Project (CCP) have finalized the preparation of their Cubsats for launch at the Canadian Space Agency (CSA). They are the first students to achieve this milestone. The satellites will be deployed from the International Space Station. Under the CCP, 15 teams of students designed and built their own CubeSat with guidance from industry and CSA experts.

Airbus (28 juin)

Airbus a reçu un contrat (160 M€) pour le satellite FORUM (Far-infrared Outgoing Radiation Understanding and Monitoring) de l'Agence Spatiale Européenne (ESA), destiné à mesurer la chaleur émise par la Terre dans l'espace. FORUM sera le premier satellite à observer la Terre dans la partie infrarouge lointaine du spectre, et permettra de compiler une vue à haute résolution de l'effet de serre et des propriétés des nuages de glace et de la vapeur d'eau dans l'atmosphère.

Innovation**Pratt & Whitney /Embraer (30 juin)**

Pratt & Whitney and Embraer have completed the first flight test using 100% sustainable aviation fuel (SAF) in the PW1919 engines of an E195-E2 aircraft.

MTU Flying Fuel Cells - FFC (29 juin)

MTU Aero Engines has set a target of 2035 to bring its Flying Fuel Cell (FFC) concept into operation on regional aircraft. A 70-person team is now working on the FFC in Munich. Plans call for the FFC to be used initially for commuter and regional flights beginning in 2025. MTU anticipates the use of improved fuel cells on short- and medium-haul flights by 2050.

Power Electronics and Machines Centre (PEMC) (28 juin)

The £40 million [US\$50 million] Power Electronics and Machines Centre (PEMC) at the University of Nottingham will develop aircraft electrification technology. The PEMC offers purpose-built laboratories for the Power Electronics, Machines and Control research group, the largest such group of researchers in the world. It also hosts the UK Government-funded Driving the Electric Revolution Industrialisation Centre which is developing technology and manufacturing processes for advanced electrical machines and drives.

Royal Air Force (27 juin)

Le projet Mosquito, le démonstrateur technologique d'un futur avion de combat sans équipage, semblable au Loyal Wingman et étudiée par le Rapid Capabilities Office (RCO) de la Royal Air Force, ne dépassera pas le stade de la phase de conception. Cette décision fait suite à un examen du démonstrateur technique et du programme de plus grande ampleur, LANCA (Lightweight Affordable Novel Combat Aircraft).

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