

Brèves de l'industrie aérospatiale – 22 novembre 2021

The **2022 Farnborough International Airshow** (18th-22nd July 2022) will host the inaugural Aerospace Global Forum; the platform will provide global leaders with the opportunity to gather, discuss and interrogate issues impacting the world from an aerospace perspective.

Rapport sur [l'état de l'industrie aérospatiale canadienne](#) (26 novembre)

L'Association des industries aérospatiales du Canada (AIAC) et Innovation, Sciences et Développement économique Canada (ISDE) ont publié leur rapport conjoint sur [l'état de l'industrie aérospatiale canadienne](#)

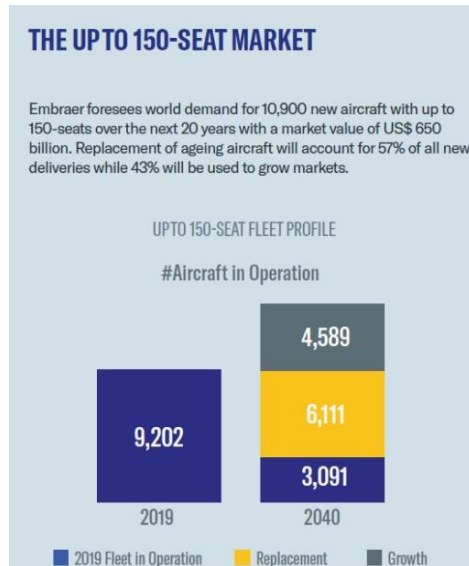
Moteurs

CFM56- and Leap-Powered Aircraft Order Forecast

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
LEAP	150	979	805	914	900	1,000	805	535	295	170	93	6,646
CFM56	4	12	5	—	—	—	—	—	—	—	—	21
Total	154	991	810	914	900	1,000	805	535	295	170	93	6,667

Aviation Week Network 2022 Commercial Fleet & MRO Forecast

Embraer Market Outlook 2021



Industrie Aérospatiale

Airbus Helicopters - VRM Switzerland (23 novembre)

Airbus Helicopters has partnered with VRM Switzerland on the development of a virtual reality-based simulator for the H125 helicopter. The two companies intend to enhance their cooperation, deploy their technology worldwide, and adapt the system to other aircraft.

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KAPE-Kamov (23 novembre)

The Kamov Ka-32A11M coaxial helicopter recently made its first flight in Bashkortostan, Russia and certification is expected in 2023. KAPE has manufactured more than 240 Ka-32-series helicopters that are now in service in 30 countries worldwide.

US Aerospace Industries Association (23 novembre)

Supply chain shortages or delays dealt a significant blow to the aerospace and defence industry, according to the Aerospace Industries Association. In 2020 the industry lost more than 87,000 jobs, or about 4% of the 2019 headcount and of these at least 55,700 were due to supply chain problems that particularly affected small and medium-sized businesses nationwide.

Airbus (22 novembre)

Airbus et le groupe de transport maritime CMA CGM ont signé un protocole d'accord pour l'achat de quatre avions cargo A350F.

Boeing 787 (22 novembre)

Boeing is completing rework to structures surrounding aft passenger and cargo doors on some in-production 787s, holding up some areas of 787 assembly.

EASA engine containment rules (22 novembre)

EASA plans to tighten engine certification requirements to take into account forward and rearward release of uncontained debris in the event of a powerplant failure. It also believes that aircraft manufacturers should be given data from engine tests to ascertain the forces on aircraft structures from out-of-balance engines still running after blade failures.

Association for Advanced Automation: sales of manufacturing automation equipment



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Aviation Commerciale

Ukrainian National Airlines (25 novembre)

The Government of Ukraine and Airbus have signed a Memorandum of Understanding covering a potential order for six A220s, twelve A320 Family aircraft, and four widebody A330/A350s for the planned new flag carrier to be called Ukrainian National Airlines.

Air Canada (19 novembre)

Air Canada a annoncé qu'elle se retirait du soutien financier consenti par Ottawa en raison de l'amélioration de sa situation de trésorerie. L'accord de soutien intervenu entre Air Canada et le gouvernement prévoyait un total de 5,875 milliards \$ de liquidités.

EasyJet (18 novembre)

EasyJet's new pilot and cabin crew uniform, which is produced from 100% recycled plastic bottles, has won the "Sustainability Award" at the 2021 Professional Clothing Industry Association Worldwide Awards, alongside its manufacturer Northern Ireland company Tailored Image. The fabric contains material made from around 45 recycled plastic bottles per uniform.

Aviation d'affaires

GAMA General Aviation Shipments: First nine months			
Aircraft Type	2019	2020	2021
Piston Airplanes	877	901	895
Turboprops	348	254	357
Business Jets	516	378	438
Total Airplanes	1741	1,533	1,690
Total Airplane Billing	\$14.9 B	\$11.9 B	\$13.4 B
Piston Helicopters	141	105	131
Turbine Helicopters	434	332	410
Total Helicopters	575	437	541
Total Helicopter Billing	\$2.22 B	\$1.8 B	\$2.4 B

Note: in each year Dassault business jet shipments are for the first half only

Textron Beechcraft Denali (23 novembre)

Textron Aviation has performed the maiden flight of the Beechcraft Denali single-engined turboprop, beginning the flight-testing phase of its development. It is powered by the GE Aviation Catalyst engine. Certification is expected in 2023.

Duncan/Dassault Falcon Jet (22 novembre)

Duncan Aviation has partnered with Dassault Falcon Jet to develop Aviation Clean Air (ACA) Ionization STC packages for Dassault 7X, 2000 and 900 family business jets. Duncan has received FAA approval for the STCs and is now applying for approval from Europe, Canada and Brazil.

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Défense

Boeing -Canada (25 novembre)

Boeing has been told that its bid to replace Canada's CF-18s with its Super Hornet did not meet the federal government's requirements. The other two bidders, Lockheed Martin and Saab, have been told that they meet the government's requirements.

PZL Mielec (25 novembre)

PZL Mielec, a subsidiary of Lockheed Martin, will build several major structural assemblies for the F-16 Block 70/72. The work will begin in 2022. Sikorsky acquired PZL Mielec in 2007 when it was a subsidiary of United Technologies.

Boeing MH-47G Block II (25 novembre)

The US Army Special Operations Command (SOC) has awarded Boeing a \$247 million contract for six additional MH-47G Block II Chinook helicopters, bringing total orders by SOC to 30.

PPG (25 novembre)

PPG has manufactured six sets of custom-designed cargo ramp seals for the Lockheed Martin C-130J using its patented ambient reactive extrusion (ARE) technology. This is PPG's first commercial sale of components made using this additive manufacturing process.

ITPS (24 novembre)

The International Test Pilots School (ITPS), London, ON, has been selected by Turkish Aerospace Industries (TAI) to train the flight test team for its TF-X fighter, Hurjet advanced jet trainer and Heavy Attack helicopter projects.

Horizon Technologies /Airborne Technologies GmbH (22 novembre)

Horizon Technologies (UK) and Airborne Technologies GmbH (Austria) have teamed on the design of "SCAR-Pod" surveillance pods to carry the BlackFish satellite intercept system, successor to the FlyingFish system. The agreement will cover both rotary and fixed-wing applications.

Turkish Aerospace Industries Hurkus (21 novembre)

Niger has become the first export customer for the Turkish Aerospace Industries (TAI) Hurkus turboprop trainer aircraft. It is also purchasing TB2 unmanned aerial systems (UAS) and armoured vehicles. Turkey claims that this is its first export of an indigenous military aircraft.

Lockheed C-130J production rates (20 November)

Lockheed is currently producing C-130J aircraft at a rate of 24 per year. It expects that a future fourth multi-year procurement contract to be agreed with the US Department of Defense will support output at or around this rate, and also sees potential for additional export orders.

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MRO

FL Technics and Wizz Air (23 novembre)

FL Technics will provide Wizz Air with heavy maintenance services for its Airbus A320 CEO and NEO fleets for a period of four years. The work will be performed at FL Technics facilities in Vilnius, Lithuania. FL Technics already provides line maintenance services to Wizz Air.

GE Aviation repair process (22 novembre)

GE Aviation Engine Services Singapore (GE AES) has introduced a new additive manufacturing technology for engine airfoil repair and manufacture. Named Direct Metal Laser Melting (DMLM) it uses machines made by GE Additive. It is used on CF6 high-pressure airfoils and LEAP fuel nozzles. GE claims that it halves the repair time versus conventional repair techniques.

Gulf Air/Safran/Air France Industries (22 novembre)

Safran Landing Systems a signé un contrat d'une durée de cinq ans avec Gulf Air, la compagnie nationale du Bahreïn, pour effectuer les opérations de maintenance des trains d'atterrissage de six Airbus A321 et d'un A320. Gulf Air a par ailleurs confié à Air France Industries KLM E&M la maintenance de ses moteurs CFM56-5B.

Drones - Advanced Air Mobility

CityAirbus (25 novembre)

Airbus will develop the central flight control system, Thales the primary computing systems and Diehl the secondary flight control computer for the flight control systems of the Airbus CityAirbus eVTOL vehicle. The systems will comply with new EASA regulations for eVTOL aircraft.

Heart Aerospace and Aernnova (25 novembre)

Swedish company Heart Aerospace has selected Spain's Aernnova to supply major sections of its in-development ES-19 19-seat electric propulsion aircraft. Aernnova will design and produce the aluminium fuselage, wings and empennage.

Volocopter /Kakao Mobility (23 novembre)

Volocopter and Kakao Mobility (KM), South Korea's largest mobility platform company, have signed an MOU to conduct a feasibility study on introducing urban air mobility (UAM) in South Korea. The companies plan to launch UAM services in South Korea by 2025.

Spatial

NASA (24 novembre)

NASA has launched the Double Asteroid Redirection Test mission, or DART. The 1,200 lb satellite will collide with a small asteroid named Dimorphos in September 2022. If successful, it could demonstrate for the first-time an ability to divert an asteroid away from a collision with Earth.

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Airbus Defence and Space/Comat (23 novembre)

Comat, société spécialisée dans le spatial, a été sélectionnée par Airbus Defence and Space pour fabriquer et intégrer un sous-système clé pour la famille de satellites OneSat. Comat sera chargée de l'industrialisation, la fabrication, l'intégration et les tests de réception d'un mécanisme clé du sous-système de déploiement et de pointage, afin de soutenir le développement de ces satellites de nouvelle génération

Innovation**Airbus/CASS (25 novembre)**

L'autorité de l'aviation civile de Singapour (CAAS) va collaborer avec Airbus pour lancer une étude de faisabilité technique d'un centre de distribution d'hydrogène dans l'aéroport.

Rolls Royce (24 novembre)

Rolls-Royce a battu plusieurs records avec son avion tout électrique, le « Spirit of Innovation », qui a notamment atteint une vitesse de 623 km/h. L'avion a été construit dans le cadre du programme industriel britannique ACCEL (Accelerating the Electrification of Flight).

Embraer and Royal NLR (24 novembre)

Embraer and the Royal Netherlands Aerospace Centre (Royal NLR) have signed an MOU concerning aerospace research and potential opportunities in automated maintenance procedures.

SpaceRyde (23 novembre)

SpaceRyde (Concord, ON) has tested the engine for the rocket portion of its hybrid balloon rocket launch system. SpaceRyde is a 2019 Creative Destruction Lab (CDL) Space Stream graduate for its unique balloon-based launch concept.

ADAC Luftrettung (22 novembre)

Air ambulance provider ADAC Luftrettung will extend the use of sustainable aviation fuel (SAF) to its fleet of helicopters that is powered by Pratt & Whitney Canada (P&WC) engines. ADAC Luftrettung is one of Europe's largest air rescue organizations, with a fleet of more than 50 helicopters, including P&WC-powered Airbus H135s.
