
Brèves de l'industrie aérospatiale – 16 mai 2022

Industrie Aérospatiale

Safran/ATR (13 mai)

Safran Landing Systems and ATR have developed 'Smart Lander', an innovative landing gear diagnostics service that uses contemporary machine learning data analysis techniques to optimise ATR's response times in the event of hard landings.

Raytheon Technologies (13 mai)

RTX Ventures, an investment group of Raytheon Technologies, has made a strategic investment in the start-up company Hermeus Corp., which is developing hypersonic aircraft for commercial and defense applications. This funding round will allow Hermeus to finish development of its remotely piloted Quarterhorse aircraft, scheduled to fly in 2023, and accelerate development of Darkhorse, an uncrewed hypersonic aircraft that can sustain hypersonic flight.

Sintavia (13 mai)

Sintavia LLC, a designer and additive manufacturer (AM) of advanced propulsion and thermodynamic systems has been chosen to represent the AM supply chain in a major White House initiative called AM Forward. GE Aviation, Honeywell, Lockheed Martin, Raytheon, and Siemens Energy each has the opportunity to nominate an AM supplier to participate in the launch. Sintavia was chosen by both Lockheed Martin and Honeywell Aerospace.

Avcorp – first quarter results (12 mai)

Avcorp's first quarter revenue was \$27.8 m compared to \$23.9 m in 2021. The increase was due primarily to continued growth in the F35 program. First quarter 2022 net loss was \$1.2 m.

Avcorp has signed a contract extension to 2027 with Boeing to provide detail parts, bench top assemblies and metal bonded assemblies for the Boeing 737 and 777 aircraft.

Under the definitive arrangement agreement, Latécoère S.A. will purchase all the common shares of Avcorp for cash consideration of \$0.11 per share and repay or assume Avcorp's net debt and other lease liabilities. This implies a total transaction value of \$139 m.

ATR (12 mai)

L'ATR 42-600S STOL a effectué son premier vol. Il est capable de décoller et d'atterrir sur des pistes plus courtes (de 800 à 1 000 mètres). Il a entamé une phase de tests au sol et en vol pour débiter la phase de certification en 2023 et sera mis en service en 2024.

Airbus (10 mai)

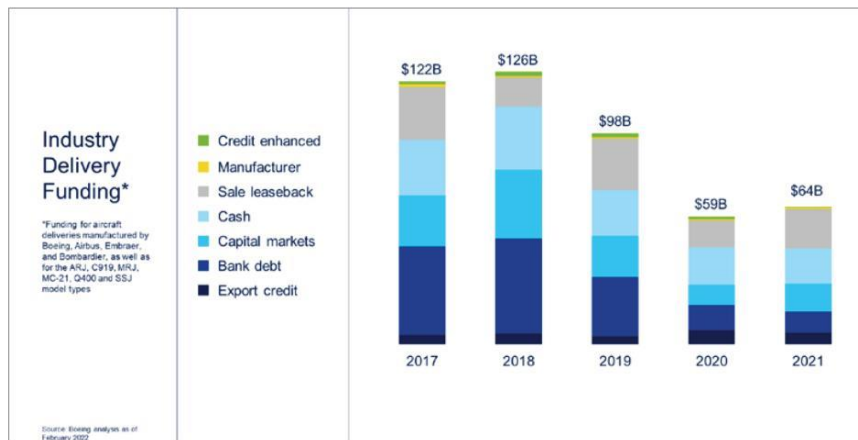
Airbus a publié ses chiffres de commandes et de livraisons au titre du mois d'avril 2022. Le groupe a réalisé 48 livraisons à 34 clients en avril pour un nombre total de 98 commandes. Depuis le début de l'année, l'avionneur a effectué 190 livraisons auprès de 54 clients.

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Aviation Commerciale

Boeing CAFMO

Boeing Capital Corporation's Commercial Aircraft Financing Market Outlook (CAFMO) shows improving financing stability as the industry recovers from the impacts of the global pandemic.



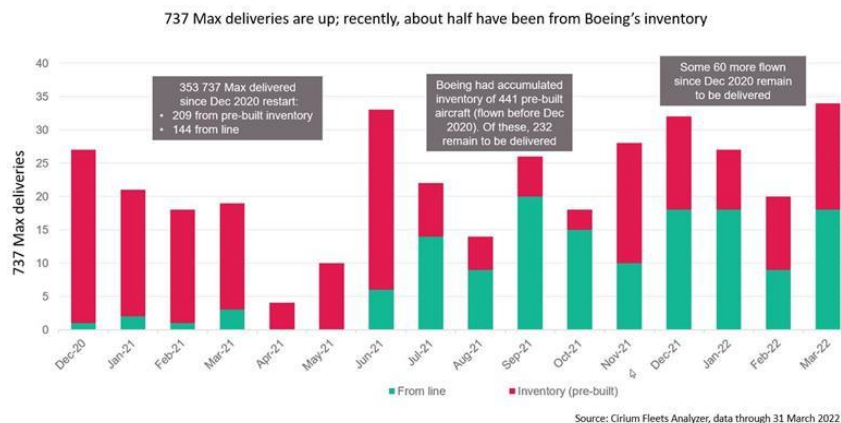
Aeroflot (13 mai)

Aeroflot has acquired eight Airbus aircraft from leasing companies outside of the "West". International sanctions have caused Western leasing companies to terminate contracts for more than 500 aircraft leased by Russian airlines.

Southwest Airlines (13 mai)

Southwest Airlines plans to invest more than US\$2 billion in enhancing and simplifying passenger services, including reservations and airport and inflight experience. Inflight investments will include enhanced wi-fi connectivity, in-seat power ports, larger overhead stowage bins, and a wider range of IFE content and refreshments.

Boeing 737 MAX deliveries



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Ameriflight and Jetstream Aviation Capital (13 mai)

Jetstream Aviation Capital has leased and delivered 15 Saab 340B(F) cargo aircraft to Ameriflight, the largest U.S. Part 135 cargo airline. The first aircraft are scheduled to begin operations in the fourth quarter of this year.

Emirates Airlines (13 mai)

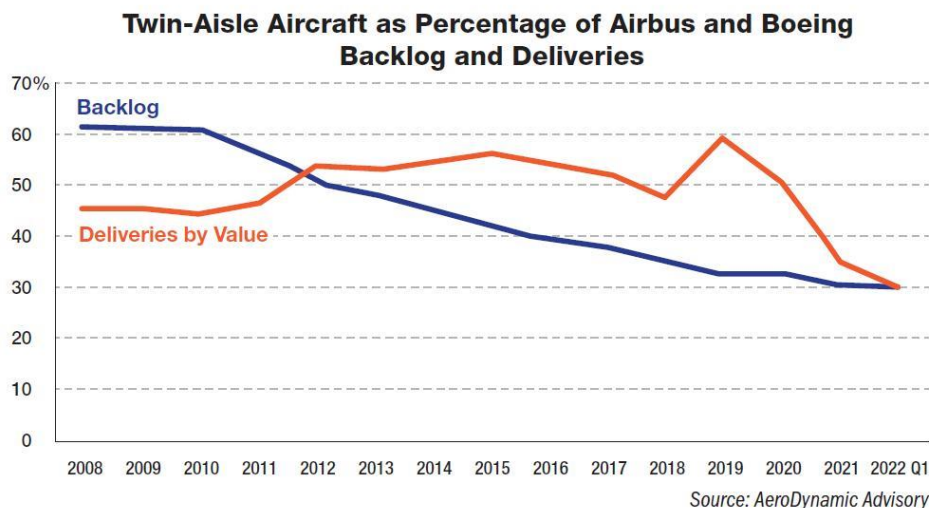
Delivery of Boeing 787s to Emirates Airlines have been delayed by at least a year until 2024 and possibly longer due to the continued delivery suspension. Emirates ordered 30 787s nearly three years ago and reduced its orders for Boeing 777Xs. This program is now also delayed.

Lufthansa (10 mai)

Lufthansa's cargo division has placed an order for ten Boeing 777 freighters including seven 777X with folding wingtips. The seven 777X freighters will be delivered between 2027 and 2030,

easyJet (7 mai)

easyJet plans to remove one row of seats from its UK-based fleet of Airbus 319s to mitigate staff shortages.



Aviation d'affaires

Dassault Aviation/Thales (13 mai)

Thales et Dassault Aviation ont signé un contrat de maintenance portant sur les systèmes électriques des avions d'affaires Falcon 900 et Falcon 2000. Les deux entreprises offriront aux opérateurs d'avions d'affaires Falcon « une valeur ajoutée sans précédent » avec les Services Premium, ainsi que « des réductions significatives du coût direct de maintenance (DMC) ».

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Textron Aviation (13 mai)

Textron Aviation has received an order from Turkish Aerospace Industries (TUSAS) for one special mission Cessna Citation Longitude and two special mission Cessna Citation Latitudes. They will be fitted with flight inspection calibration equipment and used by the Turkish DHMI (General Directorate of State Airports Authority) to inspect regional airport navigation aids.

Boom Supersonic (11 mai)

Boom Supersonic is preparing to enter the flight-test stage for its XB-1 supersonic demonstrator as soon as this summer.

Défense**Boeing T-7A Red Hawk (9 mai)**

Boeing has rolled out the first T-7 Red Hawk advanced trainer for the USAF. In its latest annual financial statements Boeing has recorded \$367 m in charges on the program and cited “the Covid pandemic, supply chain constraints and inflation” as causes.

Australia/Boeing Apache (5 mai)

Australia has confirmed its plan to buy 29 Boeing AH-64E Apache helicopters to be operated by the Australian Army Aviation Command. The government has set aside \$3.83 billion for the acquisition. The Apaches will replace its Airbus Helicopters Tiger fleet.

MRO**Israel Aerospace Industries (13 mai)**

Israel Aerospace Industries (IAI) has signed an agreement to carry out passenger-to-freighter (P2F) conversions for Cargojet. The agreement includes four Boeing 777-300ERs and additional options.

Fokker Services (12 mai)

Fokker Services will provide MRO services for GE CF34 engines that power the Embraer “classic” E170, E175, E190 and E195 family. The multi-year agreement covers more than 60 engine line replaceable units (LRUs) enrolled in Embraer’s Pool Program.

Signature TechnicAir (12 mai)

Signature TechnicAir, the MRO division of Signature Aviation, has launched Authorised Service Centre support for the Honda Aircraft Company at its Bournemouth, UK heavy maintenance facility, and will serve Western European HondaJet customers.

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Drones - Advanced Air Mobility

Undefined Technologies (13 mai)

Undefined Technologies has launched an ion-powered drone called "Silent Ventus". It is based on electrostatic and electromagnetic force technologies that have been developed by NASA. The technologies are implemented by two grids of electrodes that exert opposite voltages strong enough to create lift.

Airbus (11 mai)

Airbus a sélectionné MAGicALL, fournisseur de moteurs électriques basé en Californie, pour fournir les moteurs de l'avion eVTOL CityAirbus NextGen. Le prototype eVTOL d'Airbus sera équipé d'une version sur mesure du MAGiDRIVE, la dernière génération de moteurs électriques fabriqués par MAGicALL.

FAA (11 mai)

The FAA is changing its approach to approval of pilots of eVTOL aircraft. According to the FAA, current licensing rules "did not anticipate the need to train pilots to operate powered-lift vehicles, which "take off in helicopter mode, transition into airplane mode for flying, and then transition back to helicopter mode for landing."

Joby Aviation (10 mai)

A two-week flight test program using Joby's eVTOL prototype, and that is part of NASA's Advanced Air Mobility National Campaign, has demonstrated that noise from the four-passenger air taxi vehicle would be barely audible from city streets below.

Spatial

Reaction Dynamics and MLSI (12 mai)

Maritime Launch Services Inc. (MLSI) has signed a letter of intent with Quebec based launch provider Reaction Dynamics to conduct launches from Spaceport Nova Scotia starting in 2023. Reaction Dynamics (RDX) will first launch a suborbital test out of the MLSI launch facility in Nova Scotia in the summer of 2023. This will be followed by launches of RDX's Aurora small-satellite launch vehicle during Phase One of MLSI's spaceport development plan.

MDA – first quarter results (11 mai)

MDA's Backlog of \$1.52 billion in the first quarter was up 122% year over year driven by sizeable new awards, primarily Globalstar's LEO constellation award (~\$415 million contract) and Phase B of the Canadarm3 award (\$269 million contract). Revenues of \$128.4 million were up 4% compared to Q1 2021. EBITDA increased to \$35.6 million from \$29.5 million in Q1 2021. Adjusted EBITDA was \$44.5 million compared to \$39.1 million in Q1 2021.

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Boeing (11 mai)

Boeing and Aerojet are in a dispute concerning the cause of a problem involving fuel valves in the CST-100 Starliner propulsion system that forced a postponement of a test flight last July. This month the Starliner is scheduled to be launched by an Atlas 5 rocket to the International Space Station. Software failures also cut short a similar 2019 uncrewed test flight.

Chine (11 mai)

Un cargo ravitailleur automatique Tianzhou 4a rejoint le module Tianhe de la future Chinese Space Station (CSS). Tianhe constitue depuis avril 2021 le bloc de base de la station orbitale modulaire chinoise CSS. Il s'agissait du quinzième lancement orbital chinois de l'année 2022.

Telesat Lightspeed (9 mai)

Telesat plans to decrease its Lightspeed broadband constellation by 100 satellites. Increased costs and delays associated with the constellation have caused Telesat to reduce its planned order to 188 satellites and 10 in-orbit spares, compared with initial plans for 298 satellites. Thales Alenia Space had informed Telesat in late 2021 that supply chain issues will force a delay in the launch program by a year to at least 2026.

Innovation

Daher (13 mai)

Daher a conclu un partenariat avec le Luxembourg Institute of Science and Technology (LIST) afin d'optimiser une technologie d'assemblage automatisé par soudure de sous-structures primaires d'avions en composites à matrices thermoplastiques. Cet accord portera sur l'étude d'une technologie d'assemblage par soudure infrarouge, adaptée aux pièces de forte épaisseur et de grandes dimensions, compatible avec des fabrications en grande série et offrant une reproductibilité élevée ainsi qu'une excellente qualité.

Airbus/CFM International (11 mai)

Associé à CFM International, Airbus va équiper un A380 de démonstration pour tester un moteur à hydrogène. L'appareil sera doté de quatre réservoirs d'hydrogène liquide en position caudale, ainsi que d'un moteur à combustion d'hydrogène monté le long du fuselage arrière. Les premiers essais sont prévus au sol en 2023, puis en vol dans les cinq ans.

ZeroAvia (10 mai)

ZeroAvia, startup britannique implantée en Californie, qui développe un système de propulsion électrique à hydrogène, a pris livraison d'un deuxième Dornier 228. L'appareil, de 19 places est destiné aux tests des composants du système de propulsion à pile à hydrogène développé par ZeroAvia. Ces tests doivent permettre d'accélérer le processus de certification par la Federal Aviation Administration, que ZeroAvia souhaite obtenir en 2024.

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