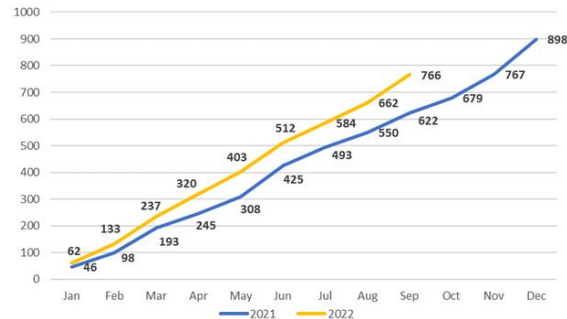
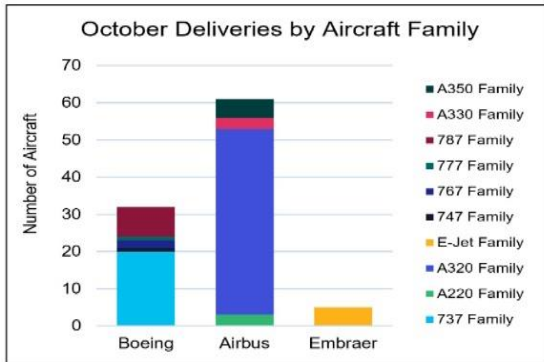


Brèves de l'industrie aérospatiale – 14 novembre 2022



Airbus and Boeing: cumulative commercial aircraft deliveries (2021 and 2022 YTD) Source : CAPA



Airbus (8 novembre)

In October, Airbus delivered 60 aircraft to 38 customers, including one A220-100, four A220-300, 21 A320neo, 26 A321neo, one A330-300, two A330neo, four A350-900, and one A350-1000. Airbus also booked 177 new orders.

Boeing (8 novembre)

2022 737 MAX Deliveries From Stored and New-Build Inventories

Month	Stored Inventory*	New-Build	Total Deliveries
JANUARY	9	18	27
FEBRUARY	11	9	20
MARCH	16	18	34
APRIL	11	17	28
MAY	8	21	29
JUNE	16	27	43
JULY	16	7	23
AUGUST	10	17	27
SEPTEMBER	14	22	36
TOTAL	111	156	267

*Stored inventory consists of airframes built before December 2020.
Source: Aviation Week Fleet Discovery

Boeing delivered 35 commercial aircraft and booked 122 new orders in October, including 106 737 MAX and 10 787-9.

Industrie Aérospatiale

CAE Q2 fiscal 2023 results (10 novembre)

CAE reported revenue of \$993.2 million for the second quarter of fiscal 2023, compared with \$814.9 million in the same period last year. Operating income was \$102.1 million (10.3% of revenue), compared to \$39.2 million (4.8% of

revenue) last year. Civil revenue was \$507.2 million vs. \$362.1 million. The adjusted civil aviation backlog at the end of the quarter was a record \$5.5 billion.

COMAC (10 novembre)

COMAC a reçu des commandes de plusieurs sociétés chinoises de leasing pour fournir 330 avions, dont 300 avions de ligne à fuselage étroit C919 et 30 jets régionaux ARJ21.

Boeing 2022 World Air Cargo Forecast (9 novembre)

Boeing expects global air cargo traffic to more than double by 2041 and the air cargo fleet to grow by more than 60%, largely driven by the growing e-commerce industry. It forecasts that the Asia-Pacific region will take nearly 40% of deliveries. Total revenue has grown by 70% versus pre-pandemic levels. There are about 300 more cargo aircraft in operation today than in 2019.

N.B : La langue utilisée reflète le contenu original de la source citée et n'a pas été traduite afin de ne pas altérer le sens du contenu partagé.

Bell Textron (9 novembre)

During European Rotors 2022, Bell Textron signed purchase agreements for four Bell 505s and made one Bell 505 delivery to the Baltic region.

Airbus / Lufthansa (8 novembre)

Lufthansa sera le client de lancement de l'Airbus Virtual Procedure Trainer qui permet aux pilotes d'apprendre les procédures à l'aide de la réalité virtuelle. Le système a été présenté à l'EATS (European Airline Training Symposium) 2022 à Berlin.

Pratt & Whitney (8 novembre)

Pratt & Whitney a vendu à Shenzhen Airlines les moteurs P&W GTF™ pour équiper sa flotte de six Airbus A321neo, ainsi qu'un contrat de service complet EngineWise® pour la maintenance.

Canada (8 novembre)

Le Canada annonce un investissement en faveur du Conseil canadien de l'aviation et de l'aérospatiale (CCAA). Cet investissement appuiera les compétences et la formation pour les travailleurs et les chercheurs d'emploi dans le secteur de l'aérospatiale.

ATR / CAAC (8 novembre)

La CAAC a validé le certificat de type de l'ATR 42-600 et ATR a reçu une commande ferme d'un client chinois non divulgué pour trois ATR 42-600. L'annonce a été faite par ATR au premier jour du salon aéronautique de Zhuhai (8-13 novembre 2022).

Embraer (7 novembre)

Embraer delivered 33 aircraft in the third quarter, up from 30 in the same period of 2021. They included 10 commercial aircraft and 23 business jets, up from nine and 21 respectively. Embraer's order backlog at the end of the quarter was \$17.8 billion, a 6% year-on-year increase.

Backlog - Commercial Aviation (September 30, 2022)

Aircraft Type	Firm Orders	Deliveries	Firm Order Backlog
E170	191	191	-
E175	817	714	103
E190	568	565	3
E195	172	172	-
E190-E2	20	17	3
E195-E2	227	39	188
Total	1,995	1,698	297

Note: Deliveries and firm order backlog include orders for the Defense segment placed by State-run airlines (Satena and TAME).

Safran Electronics & Defense (7 novembre)

Safran Electronics & Defense achète Syrlinks, (Rennes, France) spécialisée dans les radiocommunications et les radionavigations, principalement pour le secteur spatial et le PNT (Position Navigation Temps).

Saab (7 novembre)

Saab has completed the first forward fuselage for Gripen E to be manufactured in Brazil. It will be shipped to Sweden as part of the Brazilian Gripen global supply chain. Structures produced in Brazil and Sweden are identical and can be installed on any new Gripen E aircraft.

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Indra / Leonardo (7 novembre)

Indra (India) has acquired the Air Traffic Management line of business from Selex ES Inc. (Leonardo Group) and will integrate it with Indra Air Traffic Inc.

REBTECH / Aveo Engineering (7 novembre)

Global night vision solutions provider REBTECH has signed a partnership agreement with Aveo Engineering (Prague, Czech Republic) a supplier of external, cabin and drone lighting. REBTECH will manufacture the Aveo product line.

Aviation Commerciale



SOURCE: U.S. BUREAU OF TRANSPORTATION STATISTICS

Skymark Airlines (10 novembre)

Skymark Airlines plan to add up to 12 B737 MAX airplanes as part of its fleet modernization. It plans to order four 737-8 and 737-10 variants with two options. It will also lease six 737-8s.

Silk Way West Airlines / Boeing (10 novembre)

Boeing has received an order from Silk Way West Airlines for two aircraft plus two options for delivery in 2029 and 2030. Silk Way West is the first airline to order both the 777-8F and A350F. It currently operates 12 full freighters, seven Boeing 747-400F and five 747-8F.

Lufthansa Group / Recaro (10 novembre)

Lufthansa Group has ordered nearly 24,000 Recaro economy class seats to be installed on nearly 100 Lufthansa and SWISS aircraft. Delivery of the first seats is scheduled for the fourth quarter.

Alaska Airlines (9 novembre)

Alaska Airlines has ordered 52 Boeing 737 MAX aircraft (\$7 billion at list prices), and has also exercised options for an additional 42 737-10 and 10 737-9.

airBaltic (9 novembre)

airBaltic's fleet of 36 A220-300 aircraft has carried ten million passengers, completed more than 114,000 flights and flown over 251,000 block hours.

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CDB Aviation / Air India (9 novembre)

CDB Aviation, a wholly owned Irish subsidiary of China Development Bank Financial Leasing Co., Limited, has signed lease agreements with Air India for six Airbus A320neo aircraft.

Emirates (8 novembre)

Emirates achète cinq Boeing 777F (plus de 1,7 Md\$) qui seront livrés à partir de 2024 à la filiale Emirates SkyCargo. La flotte d'Emirates actuellement est de 118 Airbus A380 et 134 Boeing 777.

Republic Airways / Embraer (7 novembre)

Republic Airways has reduced its Embraer E175 order by 31 aircraft, bringing its backlog to 69 aircraft. Republic Airways was the first airline to fly the Embraer E175 domestically in the US.

IATA (7 novembre)

IATA's passenger data for September 2022 indicates a strong recovery in air travel. Total traffic in September 2022 (in RPKs) rose 57.0% compared to September 2021. Globally, traffic is now at 73.8% of September 2019 levels.

Aviation d'affaires

DRF Luftrettung / Airbus Helicopters (9 novembre)

DRF Luftrettung has ordered two additional H145 helicopters and signed a contract for Airbus Helicopters' Connected Services suite of HDDataPower pack data services for its entire fleet. The two H145s add to existing orders covering 15 H145s and three H135s.

Argus International (4 novembre)

Global business aircraft flight activity in October fell 3.2% year-over-year. North American and European traffic dipped, but the rest of the world saw a 22.6% increase. Flights in North America and Europe were down 4.9% and 10% respectively from October 2021.

Défense

US Air Force / Northrop Grumman (9 novembre)

The USAF has awarded Northrop Grumman a contract to fit the Battlefield Airborne Communications Node (BACN) system in two more Bombardier E-11A (Global) aircraft. The USAF already operates three BACN aircraft providing tactical communications for joint and coalition forces.

AVIC's Chengdu Aircraft Industry Group (CAIG) (7 novembre)

AVIC's Chengdu Aircraft Industry Group (CAIG) has unveiled the Wing Loong III (Pterodactyl III) uncrewed combat air system (UCAS) with a maximum take-off weight of 6,200 kg.

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Bombardier (4 novembre)

Bombardier has delivered the first of two Global 6500 to Sierra Nevada Corp. for its RAPCON-X rapidly configurable aerial ISR aircraft program.

Thales / Defend ID (Defense Industry Indonesia) (4 novembre)

Thales et la holding Defend ID (Defense Industry Indonesia) prévoient la création d'une joint-venture (JV) avec PT Len Industrie (Defend ID) qui assurera des services de maintenance, réparation et révision (MRO) pour les radars en service au sein de l'armée de l'Air indonésienne.

Northrop Grumman / Quickstep Holdings (4 novembre)

Northrop Grumman and Quickstep Holdings (Australia) have signed a contract for Quickstep to manufacture parts for the F-35 centre fuselage, in addition to its existing work packages.

MRO

Heli-One (8 novembre)

Heli-One will offer AW139 main gear box (MGB) MRO services at its facility in Delta (B.C). It has supported the AW139 platform globally since 2008, including for small components and, since 2020, for intermediate gear box (IGB) and tail gear box (TGB) assemblies.

IBA - passenger-to-freighter (P2F) conversions market (8 novembre)

IBA reports continued demand for freighter capacity. The active B737-800 P2F fleet is now 121 aircraft, with 47 pending conversions and 33 in storage. Strong demand for the Airbus A321-200 P2F is reflected in orders by Global Crossing Airlines, Express Freighters Australia, IndiGo, Lufthansa Cargo, SmartLynx Malta, and Titan Airways. There are 10 active aircraft and 43 pending conversions. The B757-200 P2F fleet is now 235, with 24 pending conversions and 37 stored aircraft. Demand is strong for the A330-300 P2F with 17 active aircraft and a backlog of 22, while there are five A330-200 P2F in service and seven awaiting conversions.

Epcor / China Eastern Airlines (7 novembre)

China Eastern Airlines has placed an order with Epcor, a subsidiary of Air France Industries KLM Engineering & Maintenance, to support APS5000 APUs in its Boeing 787-9 fleet.

Drones – Advanced Air Mobility

Archer Aviation / United Airlines (10 novembre)

Archer Aviation and United Airlines have announced their first airport to city centre route between United's hub at Newark Liberty International Airport (EWR) and New York City.

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Dufour Aerospace / Spright (Air Methods) (7 novembre)

Spright, a provider of helicopter emergency medical services (EMS), is purchasing 40 Dufour Aerospace Aero2 eVTOL aircraft with options for an additional 100 aircraft.

magniX / Tier 1 Engineering (7 novembre)

magniX and Tier 1 Engineering have installed a magniX magni250 electric propulsion unit in a Robinson 44 and completed a 20-minute first flight.

Vertical Flight Society (VFS) / Hysky Society (7 novembre)

According to a study by the Vertical Flight Society (VFS) and Hysky Society, some 10,000 additional engineers will be needed over the next decade to meet demand in The US from the Advanced Air Mobility (AAM) industry. The legacy aerospace industry has twice the attrition rate of the national average, but the (AAM) sector has closer to four times. Replacing a single highly experienced aerospace engineer can cost up to \$1 million.

Arabian Development and Marketing Corp. (ADMC) (4 novembre)

ADMC has ordered 52 Sabrewing Aircraft Rhaegal-A (Alpha) heavy-lift cargo uncrewed aerial vehicles (UAVs) following the type's first flight. It carried a 829 lb (374kg) payload, the most yet for a commercial cargo UAV.

Spatial

SES / Arianespace (10 novembre)

SES a sélectionné Arianespace pour le lancement du satellite Eagle-1, un système européen de cryptographie quantique destiné aux applications de cybersécurité. Le satellite, sera lancé sur une fusée Vega C depuis la Guyane française dès le quatrième trimestre 2024.

Airbus (7 novembre)

Airbus Defence and Space has partnered with Japanese company Space Compass to serve the Japanese market with mobile connectivity and earth observation solutions.

GHGSat (7 novembre)

GHGSat has launched SPECTRA, a free version of its emissions platform, replacing its PULSE service that it launched in 2020. GHGSAT said the that while "PULSE provided rolling monthly average concentrations of methane, updated weekly," SPECTRA "will provide higher temporal resolution, by providing weekly average concentrations of methane on the same 2km x 2km grid, worldwide."

Innovation

NASA / Pratt & Whitney (11 novembre)

NASA has selected Pratt & Whitney to develop new combustor technologies for engines that could be used on future single-aisle passenger aircraft. The program focuses on the compatibility of sustainable aviation fuels (SAF) with advanced combustors in small-core engines. It is part of NASA's Hybrid Thermally Efficient Core (HyTEC) program.

Hexagon / Raytheon Technologies (7 novembre)

Hexagon and Raytheon Technologies have partnered to deliver a simulation tool that will enable evaluation and optimisation of metal additive manufacturing processes through the prediction of thermal history and defects at the laser path and powder layer scale.
