
Brèves de l'industrie aéronautique – 11 octobre 2021

Industrie Aérospatiale

Nexteam / Ventana (7 octobre)

Nexteam et Ventana vont fusionner et créer un nouveau groupe de 2 000 salariés et 22 usines. Nexteam (usinage et traitement de surface) et Ventana (chaudronnerie et fonderie) sont complémentaires et le nouveau groupe sera dans le top 3 des fabricants français de pièces aéronautiques avec Figeac Aero et Mecachrome.

IMP and Eclipse Technology Solutions (6 octobre)

IMP Group has acquired Eclipse Technology Solutions. Eclipse has around 40 employees and is headquartered in Mississauga, Ontario. A Cisco and Microsoft Gold Partner, it specializes in communications and networking information technology solutions for multiple industry sectors.

A220 stretch (6 octobre)

Airbus COO Christian Scherer has said that he expects that the company will develop a larger variant of the A220. "This is a question of when, not a question of if," Scherer has said.

Honeywell Anthem (5 octobre)

Honeywell has announced its next-generation avionics platform, called Anthem. It says that it is the first "cloud-connected" avionics suite designed to serve all aviation segments including advanced air mobility vehicles, light aircraft, business jets, and airliners. Vertical Aerospace and Lilium are the first companies to announce the adoption of Anthem for their eVTOLs—the VA-X4 and Lilium Jet, respectively.

Leonardo Boeing 787 (4 octobre)

Leonardo CEO Alessandro Profumo says that Boeing is preparing to increase production of the B787 Dreamliner. Leonardo is a supplier of components for the Dreamliner, and Profumo says Boeing is growing more optimistic regarding future demand.

GE Aviation/NASA (1 octobre)

NASA has awarded two contracts worth \$253.4 million combined to GE Aviation and MagniX USA to develop and demonstrate electrified propulsion systems intended for commercial aircraft. The two companies will participate in the Electric Powertrain Flight Demonstration project within a five-year period. The contracts also call for GE Aviation and MagniX to support other agency programs involving electric propulsion development, flight test instrumentation, data analysis and megawatt-class EAP innovation.

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Aviation Commerciale

The Air Transport Action Group (5 octobre)

The Air Transport Action Group (ATAG), that includes aircraft and engine manufacturers and organizations such as IATA, IBAC, A4A, and GAMA, has stated that “global civil aviation operations will achieve net-zero carbon emissions by 2050”. In a report it forecasts that by 2050 traffic levels will be 2.5 times greater than in 2019. It says that hybrid power, electricity, and hydrogen could contribute between 12 and 34 percent of the emissions but that the bulk of the savings—53 to 71 percent—is projected to come from sustainable aviation fuel (SAF) with a need for 445 million tonnes by 2050. The remainder of the goal would be covered by operational improvements and infrastructure, and carbon removal or sequestration.

Ryanair Traffic (4 octobre)

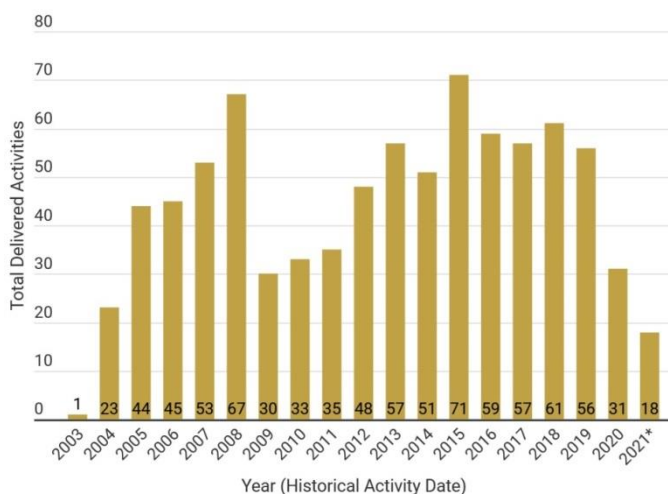
The leading European low cost airline Ryanair has reported that in September its passenger numbers more than doubled year-on-year to 10.6 million, but still remain 4 million below pre-Covid highs. It is also its second-highest monthly passenger total since the crisis began.

IATA financial forecast update (4 octobre)

IATA reports that airlines are now expected to lose \$51.8 billion this year, remain in the red as an industry next year, and accumulate collective losses of over \$200 million between 2020 and 2022. The forecast losses for 2021 are \$4.1 billion more than the previous forecast in April.

Aviation d'affaires

Challenger 300/350 deliveries by year



Note: * 2021 deliveries are through mid-September
Source: Aviation Week Network Fleet Deliveries

Total deliveries to mid-September 2021: 840

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AIN Product Support Survey: business aircraft turbine engines

Category & Overall Average Ratings for Engine OEMs	Overall Average 2021	Overall Average 2020	Rating Change from 2020 to 2021	Factory Owned Service Centers	Authorized Service Centers	Cost per Hour Programs	Parts Availability	Cost of Parts	AOG Response	Warranty Fulfillment	Technical Manuals	Technical Reps	Overall Engine Reliability
Turbofan Engines													
Williams International	8.8	8.2	0.6	8.8	8.8	8.5	8.8	7.9	8.8	9.3	8.6	8.8	9.3
Pratt & Whitney	8.5	8.2	0.3	8.6	8.9	8.0	8.5	7.6	8.5	8.9	8.5	8.6	9.2
GE Aviation	8.5	7.9	0.6	8.9	8.6	7.9	9.0	7.5	8.3	9.0	8.3	8.0	9.4
Rolls-Royce	8.5	8.2	0.3	8.6	8.6	7.6	8.5	6.9	8.7	8.9	8.2	8.9	9.6
Honeywell	8.2	8.0	0.2	8.7	8.8	7.6	8.1	7.1	7.9	8.6	7.7	8.3	9.0
Turboprop Engines													
Honeywell	9.0	8.1	0.9	9.8	9.6	*	8.8	7.0	9.0	*	9.1	9.5	9.8
Pratt & Whitney	8.5	8.0**	0.5	8.6	8.7	8.1	8.5	6.9	8.3	8.8	8.3	8.7	9.4
Turboshaft Engines													
Pratt & Whitney	8.7	8.0**	0.7	8.8	8.8	8.3	8.8	7.9	8.9	8.9	8.6	8.7	9.0
Safran Helicopter Engines	8.0	8.0	-	7.5	8.2	7.7	7.6	6.7	7.8	*	8.2	8.1	9.3
Rolls-Royce	7.6	NA	NA	*	7.9	7.2	7.1	6.1	7.0	*	7.9	8.7	8.7

Ties listed alphabetically; * Not reportable due to sample size; ** 2020 Overall Average includes both Turboprop & Turboshaft

Gulfstream G400 and G800 (5 octobre)

Gulfstream has revealed the first flight test article of the G800, A larger derivative of the G700. It is powered by Rolls-Royce Pearl 700 engines and will fly 8,000-nm at Mach 0.85 and 7,000-nm at Mach 0.90. First deliveries are scheduled for 2023. Gulfstream also announced the launch of the G400 program. The G400 will be powered by PW812GA engines. It will have a maximum range of 4,200nm at its high speed cruise of Mach 0.85. First deliveries are scheduled for 2025.

Piaggio (4 octobre)

Italy has formalised an order for six Piaggio Aerospace P180 Avanti turboprops for the country's armed forces valued at €171 million. The contract also includes a P180 full flight simulator and continued maintenance of the Rolls-Royce Viper engines powering the Aermacchi MB-339s operated by the Frecce Tricolori display team. Piaggio Aerospace has been in extraordinary administration since 2018, with the sale process is now down to a final bidder.

Défense

General Electric (4 octobre)

General Electric has secured a nearly \$284 million contract with the Defense Logistics Agency to provide to the U.S. Army, Navy and Air Force. The T-700 firm-fixed-price contract has a base performance period of five years and three months, ending on Dec. 31, 2026. T700/CT7 engines power military helicopters used in air rescue, medical evacuation, marine patrol, transport and special operations.

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Lockheed Martin (4 octobre)

Lockheed Martin has opened its new 65,000 sq ft facility in Courtland Alabama for the production of the Long Range Hypersonic Weapon for the US Army, the Navy Conventional Prompt Strike missile and the AGM-183A Air-launched Rapid Response Weapon. It is one of four "intelligent" factories being opened by Lockheed in 2021.

MRO

Chicago Jet Group (5 octobre)

Chicago Jet Group (Aurora IL), has received FAA Supplemental Type Certificate (STC) for installation of Universal Avionics' InSight Flight Deck Upgrade on the Dassault Falcon 900B. It includes dual flight management systems, a cockpit voice recorder and a new communications management system.

A330 P2F (4 octobre)

Lessor Avolon has become the launch customer for Israel Aerospace Industries' (IAI) Airbus A330-300 passenger-to-freighter (P2F) conversion. It has committed to 30 conversion slots over four years from 2025. Avolon will also partner with IAI to obtain a supplemental type certificate (STC) for the programme. IAI claims that the converted aircraft will be able to carry a payload of 61t over 3,600nm with up to 27 main deck pallet positions.

CFM56 MRO (2 octobre)

Aviation Week's recently released MRO forecast estimates that the CFM56 fleet will generate 28% of total engine maintenance demand in 2022 by spend, approximately \$10.4 billion. That is more than twice as much as for the next-largest family, the Rolls-Royce Trent. The majority of the CFM56 fleet comprises the -5B (A320ceo) and -7B (B737 600-900) models.

Status	Aircraft
IN SERVICE	8,035
PARKED/RESERVE**	379
PARKED	618
STORED	1,210
TOTAL AIRCRAFT	10,242

Drones - Advanced Air Mobility

Honda eVTOL (5 octobre)

Honda has announced plans to bring an eVTOL aircraft to market. It adopts a gas turbine-based hybrid electric power unit with low diameter rotors that will provide a longer range, targeting the market for intercity transportation of up to 249 miles. Honda cites its main competitors as "numerous start-ups" as well as Hyundai, Toyota and China's Geely group. The vehicle will provide a level of safety equivalent to that of commercial passenger airplanes due to a simple structure and a decentralized propulsive system. Depictions show eight small propellers distributed on two booms and two ducted propellers in the rear.

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eVTOL Safety Leadership Group – eVSLG (5 octobre)

The UK Civil Aviation Authority (CAA) is attempting to define a safety culture in advanced air mobility (AAM) operations through the creation of an international consortium of industry representatives. Named the eVTOL Safety Leadership Group (eVSLG), it includes aircraft developers Joby and Vertical Aerospace, operators Bristow Helicopters and Virgin Atlantic Airways, the UK Air Accident Investigation Branch, British Helicopter Association, Flexjet, the General Aviation Safety Council, and air navigation service provider NATS.

Embraer and Avantto (4 octobre)

Embraer's urban air mobility unit Eve has secured an order for 100-of its eVTOL aircraft from Brazilian aircraft sharing firm Aviation Management Services (Avantto), with deliveries expected to start in 2026. This order for Eve's electric vertical takeoff and landing (eVTOL) aircraft is part of a wider partnership between both companies to develop UAM capabilities in Latin America. Avantto is an existing operator of Embraer business jets.

Spatial**Eutelsat (7 octobre)**

Eutelsat a exercé une option d'achat pour 165 M\$ auprès du conglomérat indien Bharti Global, faisant monter sa participation au capital de la constellation OneWeb à 22,9% (contre 17,6% jusqu'ici). Lorsque ce nouvel investissement sera finalisé fin 2021, Eutelsat sera le deuxième actionnaire de OneWeb, derrière l'Etat britannique.

US Space Force (2 octobre)

The US Space Force is preparing a classified meeting with more than 100 space companies and defense contractors to discuss solutions to the evolving threat environment in orbit.

Boeing X-37B (2 octobre)

The Boeing X-37B unpiloted space plane has passed more than 500 days in orbit following a US Space Force launch on May 17, 2020. The current mission combines some public experiments along with its classified military work.

Innovation**Faimat (8 octobre)**

Faimat qui vient de lever 8,6 M€ a pour objectif de recycler les fibres de carbone composites pour les réinjecter dans le processus de fabrication d'un nouveau matériau composite. Les déchets composites représenteraient près de 62 000 tonnes dans le monde chaque année, constitués pour 10 à 30% des chutes de production, les 70 à 80% restant provenant de pièces en fin de vie.

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GKN Aerospace (7 octobre)

GKN Aerospace et l'Institut royal suédois de technologie (KTH) annoncent développer ensemble une soufflante carénée alimentée par un moteur électrique, dans le cadre d'un projet baptisé « EleFanT », qui vise à démontrer les avantages de cette technologie pour l'aviation régionale.

NASA and GE Aviation: hybrid-electric technology development (4 octobre)

NASA has awarded funding of US\$253 million to GE Aviation and Magnix to develop a hybrid electric technology demonstrator aircraft. The five-year Electric Powertrain Flight Demonstration (EPFD) project aims to conduct ground and flight testing of a megawatt (MW)-class hybrid-electric propulsion system by 2026. It will be flight tested on a modified Saab 340B testbed and use GE's CT7-9B turboshaft engines. NASA said it wants to see what it is terming Electrified Aircraft Propulsion (EAP) technologies used in US aviation fleets no later than 2035, for short-range and regional commercial air travel, as well as single-aisle seat transports.

Ardian / FiveT Hydrogen (1 octobre)

Ardian et FiveT Hydrogen ont annoncé le lancement du fonds d'investissements Hy24, dédié à la création d'infrastructures pour l'hydrogène décarboné. Hy24 gèrera un premier fonds de 1,5 Md€, dont 800 millions d'euros ont déjà été engagés par des investisseurs industriels et des acteurs financiers. Ce fonds est le fruit, notamment, de l'initiative d'Air Liquide, TotalEnergies et Vinci, qui se sont engagés à investir chacun 100 M€ comme partenaires d'origine. Groupe ADP participe également.
