William Blair

Aviation Services Industry Update

September 2024

In This Report

Widebody Aircraft Orders Dominate the 2024 Farnborough International Airshow

Bombardier and Embraer Post Strong Q2 Results

Activity Updates and Analyses



Aviation Services Observations and Key Trends

Widebody Aircraft **Dominate Orders at** the 2024 Farnborough International Airshow; **Bombardier and Embraer** Report Strong Q2 Results

Commercial Revenue Passenger-Kilometer (RPK) in June grew by 9.1% year-overyear, while Available Seat-Kilometer (ASK) increased by 8.5%.1

General aviation activity in the second quarter increased approximately 2% year-over-year, with notable growth of approximately 4% in June compared to the same period in 2023.²

Business jet activity in the second quarter saw a drop in demand, as June experienced a decline of approximately 3.5% year-overyear.2 In North America, fractional activity rose 12.1% year-over-year in June, while Part 135 and Part 91 activity fell by 5.3% and 10.2%, respectively.3

Widebody Aircraft Orders Surge at Farnborough Airshow

The Farnborough International Airshow brought together more than 1,200 exhibitors and top innovators from the aerospace, space, and defense sectors. Boeing had a strong start at the airshow, as Korean Air ordered up to 50 Boeing widebody airplanes, and Japan Airlines ordered 10 787-9 jets.4

As reported by CNBC at the airshow, both Boeing and Airbus "are largely sold out of narrow-body jets like the Boeing 737 Max and Airbus A321neo through much of this decade, if not longer. Boeing has an overall backlog of close to 5,500 planes, while Airbus has more than 8,000 on order."5 This is a sign of a recovery in long-range, international travel.

Business Jet Deliveries and Growth in Q2 Bombardier boosted its revenue by 32%, reaching \$2.2 billion in the second quarter, and successfully delivered 39 business jets, marking a 34% year-over-year increase.

Bombardier & Embraer Report Strong

Bombardier's services business, which reached \$500 million in quarterly revenue. significantly contributed to these results.6

In the first half of 2024, Bombardier delivered 59 aircraft, comprising 32 Challengers and 27 Globals, an increase from the 51 jets delivered in the same period in 2023. Despite the recent strike at its Global production plant in Toronto, Bombardier maintained its guidance to deliver between 150 and 155 aircraft this year.

Embraer also posted positive quarterly results, reporting increases in revenue, order backlog, and deliveries. The company delivered 47 jets, including 27 business jets.⁷ Embraer anticipates shipping 125 to 135 business jets by year-end, with its backlog rising to \$21.1 billion, a 20% annual increase. The commercial aviation division experienced the most growth within the backlog, while defense and security lagged.

In the News

- Leonardo's Helicopter Division Soars With Recent Growth and Demand. Leonardo experienced robust doubledigit growth in the first half of 2024, driven by strong sales of commercial and military helicopters. Leonardo reported a 15.6% boost in orders to €10.3 billion (\$11.2 billion).8
- GE Aerospace to Invest \$1 Billion to Expand and Upgrade MRO Facilities. GE Aerospace will invest more than \$1 billion over the next five years in its MRO and component facilities globally. The investment will increase capacity for both widebody and narrowbody aircraft, introduce advanced inspection techniques, and expand component repair capabilities. The funding will also support the growing demand for CFM LEAP engines and the construction of a new Services Technology Acceleration Center (STAC) near Cincinnati, opening in September 2024.9
- **NetJets to Expand Its Dedicated** Airport Infrastructure Network. NetJets will take over the former Signature Aviation South FBO terminal at Teterboro Airport (KTEB). The terminal NetJets had long occupied will now be renovated in cooperation with Signature to exclusively serve the company's fractional aircraft owners. Following the recent opening of a dedicated terminal in Bozeman, Montana, NetJets will continue its expansion to Scottsdale, Ariz., (KSDL) and Las Vegas (KLAS).10
- Source: @ International Air Transport Association, 2024. "Air Passenger Market Analysis." All Rights Reserved. Available on IATA Economics page.
- Source: Federal Aviation Administration.
- Source: ARGUS International TRAOPak, July 9, 2024.
- Sources: Boeing Press Releases, "Korean Air Commits to Up to 50 Boeing Widebodies to Strengthen Future Long-Haul Fleet," and "Japan Airlines Will Modernize Fleet with up to 20 More Boeing 787 Dreamliners," July 22, 2024.
 Source: CNBC, "At the year's biggest air show, Boeing and Airbus orders were muted. Supply chain worries were not," July 30, 2024.
- Source: Bombardier Press Release, "Bombardier Posts Double-Digit Growth Across Key Metrics Including Deliveries, Revenues, Services and Profitability, Affirms Full Year Guidance," July 25, 2024.
- Source: Embraer Press Release, "EARNINGS RESULTS 2nd Quarter 2024," August 8, 2024.
- Source: Leonardo Press Release, "LEONARDO: 1H 2024 DOUBLE DIGIT GROWTH PERFORMANCE ACROSS ALL KPIs," July 30, 2024.
- Source: GE Aerospace, "GE Aerospace Investing \$1 Billion to Expand and Upgrade MRO Facilities Worldwide," July 19, 2024.
- 10. Source: NetJets, "New Exclusive-Use Facilities at Teterboro Airport and Beyond," July 16, 2024.

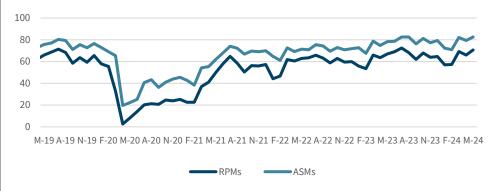
Top 10 Airports for Domestic Business Jet Operations

(LTM July 2024 Business Jet Operations)



Air Traffic (RPMs) and Capacity (ASMs)

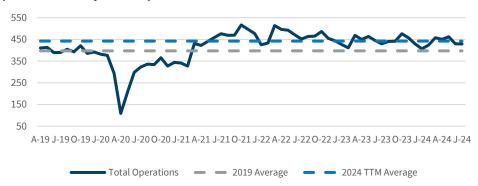
(Millions of Miles)



Business Jet Operations and Commercial Flight Activity

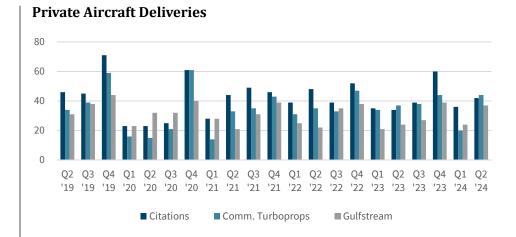
Business Jet Operations

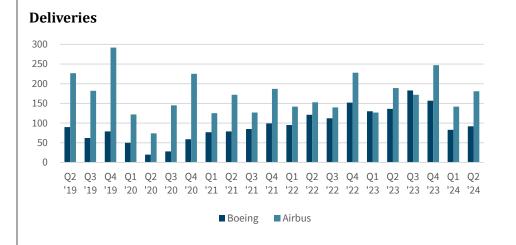
(Thousands of Operations)



Business Jet and Commercial Aircraft Orders

and Deliveries

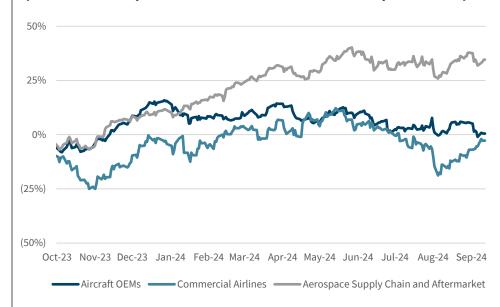




Source: Company financial reports.

Public Company 1-Year Stock Performance

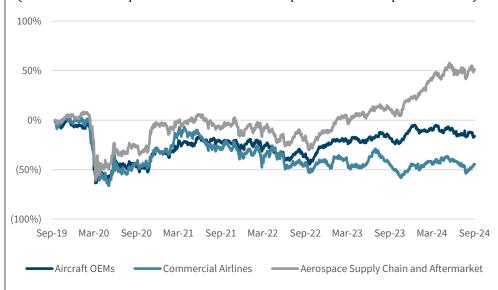
(Indexed Market Capitalization for the Period October 2023–September 2024)



Public Company Performance

Public Company 5-Year Stock Performance

(Indexed Market Capitalization for the Period September 2019–September 2024)



Aircraft OEMs: ENXTPA:AIR, ENXTPA:AM, NYSE:BA, NYSE:ERJ, NYSE:GD, NYSE:TXT, TSX:BBD.B Commercial Airlines: NasdaqGS:AAL, NasdaqGS:JBLU, NasdaqGS:UAL, NasdaqGS:ULCC, NYSE:ALK, NYSE:DAL, NYSE:LUV, NYSE:SAVE

Aerospace Supply Chain & Aftermarket: ENXTPA:SAF, NasdaqCM:ASLE, NasdaqGS:ATRO, NasdaqGS:VSEC, NasdaqGS:WWD, NYSE:AIR, NYSE:B, NYSE:DCO, NYSE:HXL, NYSE:MOG.A, NYSE:RBC, NYSE:SPR, NYSE:TDG, NYSE:TGI, NYSE:WCC, TSX:CAE, TSX:MAL, XTRA:MTX, NYSE:LOAR

Public Company Operating and Valuation Metrics

	Enterprise Value (\$ millions)	Market Capitalization (\$ millions)	% of 52 - Week High	Rev Growth			Enterpise Value /				
Company				'24P	'25P	LTM EBITDA Margin	LTM Revenue	NTM Revenue	LTM EBITDA	NTM EBITDA	
Aircraft OEMs											
The Boeing Company	\$145,615	\$100,294	60.8%	10.4%	16.8%	1.8%	2.0x	1.7x	NMF	NMF	
Airbus SE	112,609	114,018	75.6%	13.6%	14.0%	8.7%	1.6x	1.4x	18.2x	11.0x	
General Dynamics Corporation	92,242	82,485	98.1%	14.1%	10.1%	11.4%	2.1x	1.9x	18.0x	14.2x	
Textron Inc.	18,909	16,291	89.3%	8.0%	7.4%	12.1%	1.4x	1.3x	11.2x	10.4x	
Bombardier Inc.	11,810	6,465	88.9%	21.5%	5.1%	11.8%	1.4x	1.3x	11.9x	8.3x	
Embraer S.A.	8,370	6,607	99.5%	15.0%	29.4%	8.2%	1.6x	1.3x	20.0x	11.0x	
Dassault Aviation société anonyme	6,826	16,319	89.2%	(26.3%)	32.8%	9.5%	1.2x	0.9x	12.8x	7.9x	
Mean	\$56,626	\$48,926	85.9%	8.1%	16.5%	9.1%	1.6x	1.4x	15.3x	10.5x	
Median	\$18,909	\$16,319	89.2%	13.6%	14.0%	9.5%	1.6x	1.3x	15.4x	10.7x	
Aerospace Supply Chain and After	market Supp	ort									
Safran SA	\$93,543	\$93,892	92.5%	32.2%	17.8%	20.3%	3.4x	2.9x	16.7x	14.6x	
TransDigm Group Incorporated	94,174	75,640	97.6%	35.0%	14.8%	49.6%	12.4x	10.8x	25.0x	20.7x	
MTU Aero Engines AG	17,130	16,358	98.7%	6.4%	41.4%	(0.6%)	2.8x	2.0x	NMF	11.6x	
WESCO International, Inc.	12,778	7,644	79.6%	2.5%	0.3%	6.8%	0.6x	0.6x	8.5x	8.2x	
Woodward, Inc.	10,620	9,977	88.8%	32.0%	3.7%	17.8%	3.3x	3.2x	18.4x	17.7x	
RBC Bearings Incorporated	9,437	8,325	92.7%	10.2%	6.1%	30.3%	6.0x	5.6x	19.7x	18.5x	
Spirit AeroSystems Holdings, Inc.	7,880	3,930	90.9%	28.2%	16.1%	(8.2%)	1.2x	1.1x	NMF	NMF	
CAE Inc.	8,163	5,801	72.9%	14.0%	8.5%	16.4%	2.6x	2.4x	15.7x	9.8x	
Moog Inc.	7,214	6,148	96.0%	16.0%	3.6%	13.6%	2.0x	2.0x	14.9x	14.0x	
Loar Holdings Inc.	7,229	7,042	98.7%	49.6%	15.8%	34.0%	NMF	NMF	NMF	NMF	
Hexcel Corporation	5,728	5,014	79.6%	17.2%	9.5%	18.5%	3.1x	2.8x	16.7x	13.7x	
AAR Corp.	3,314	2,321	86.3%	25.7%	16.0%	8.8%	1.4x	1.2x	16.3x	10.5x	
Barnes Group Inc.	2,953	1,850	80.6%	26.0%	1.8%	20.9%	1.9x	1.8x	8.9x	8.6x	
VSE Corporation	2,054	1,573	90.8%	45.5%	17.7%	12.7%	2.1x	1.8x	16.6x	14.0x	
Triumph Group, Inc.	1,858	1,050	76.0%	1.5%	1.5%	12.3%	1.5x	1.5x	12.5x	10.0x	
Ducommun Incorporated	1,199	943	96.7%	9.0%	4.3%	11.3%	1.5x	1.5x	13.6x	9.8x	
Astronics Corporation	859	660	79.7%	38.6%	9.6%	3.4%	1.2x	1.1x	NMF	7.8x	
Magellan Aerospace Corporation	448	397	98.8%	18.3%	13.3%	8.2%	0.7x	0.6x	8.1x	5.5x	
AerSale Corporation	365	273	30.7%	(13.2%)	12.0%	3.3%	1.0x	0.9x	NMF	9.1x	
Mean	\$15,102	\$13,097	85.7%	20.8%	11.3%	14.7%	2.7x	2.4x	15.1x	12.0x	
Median	\$7,214	\$5,014	90.8%	18.3%	9.6%	12.7%	1.9x	1.8x	16.0x	10.5x	
Commercial Airlines											
Delta Air Lines, Inc.	\$50,065	\$28,388	82.2%	18.9%	(2.4%)	13.4%	0.8x	0.9x	6.2x	5.3x	
American Airlines Group Inc.	37,605	7,145	67.4%	9.1%	2.8%	9.6%	0.7x	0.7x	7.3x	6.4x	
United Airlines Holdings, Inc.	35,333	16,327	88.4%	23.8%	3.8%	13.7%	0.6x	0.6x	4.6x	4.4x	
Southwest Airlines Co.	16,405	17,298	82.1%	13.5%	3.2%	6.4%	0.6x	0.6x	9.5x	8.2x	
Spirit Airlines, Inc.	6,847	281	14.7%	1.1%	(3.1%)	(9.3%)	1.3x	1.4x	NMF	NMF	
JetBlue Airways Corporation	6,562	2,053	78.1%	1.7%	2.1%	3.4%	0.7x	0.7x	21.0x	10.6x	
Alaska Air Group, Inc.	6,406	5,040	86.6%	9.1%	5.5%	11.5%	0.6x	0.6x	5.3x	3.8x	
Frontier Group Holdings, Inc.	4,401	990	52.9%	8.6%	9.7%	(6.6%)	1.2x	1.1x	NMF	5.5x	
Mean	\$20,453	\$9,690	69.0%	10.7%	2.7%	5.3%	0.8x	0.8x	9.0x	6.3x	
Median	\$11,626	\$6,092	80.1%	9.1%	3.0%	8.0%	0.7x	0.7x	6.7x	5.5x	

Source: CapitalIQ as of September 12, 2024.

MARKET UPDATE AND ANALYSIS

Select Aviation Services Transactions

Date	Target	Acquirer	Sub-Sector	William Blair Transaction
Aug-24	Farsound Aviation ¹	Onex Partners	MRO	•
Aug-24	Dulles Jet Center	Signature Aviation	FBO	
Jul-24	MRO Holdings	Bain Capital	MRO	
Jun-24	Mayo Aviation	Stevens Aerospace	MRO	
May-24	Sunvair Aerospace Group	Greenbriar Equity Group	MRO	•
May-24	American Aero	Modern Aviation	FBO	
Apr-24	Turbine Controls, Inc.	VSE	MRO	
Mar-24	Mid-Continent Aviation Services	Yingling Aviation	MRO	
Mar-24	Triumph Group (Product Support Group)	AAR	MRO	
Jan-24	Meridian	Signature Flight Support	FBO	
Dec-23	Fontainebleau Aviation	Skyservice (Instar)	FBO	•
Dec-23	FlyExclusive	EG Acquisition	Charter	
Nov-23	Jet East West	Star Aviation	MRO	
Nov-23	Modern Aviation (16 locations)	Apollo (Majority) and Tiger Infrastructure Partners	FBO	
Aug-23	Wencor	HEICO	MRO	•
Aug-23	Flying Colours	FlexJet (Eldridge and Directional Aviation)	MRO	
Jun-23	Yingling Aviation	AE Industrial Partners	FBO / MRO	
May-23	Primeflight Aviation Services	Capitol Meridian Partners and The Sterling Group	Ground Handling	
May-23	Star Handling	Skytanking (Primeflight)	Ground Handling	
Apr-23	Epps Aviation (Atlanta, GA)	Aero Centers (SAR-Trilogy and Redbird Capital)	FBO / Charter / MRO	•
Mar-23	Midwest Corporate Aviation	Clemens Aviation	FBO / Charter / MRO	
Mar-23	Atlas Air	Apollo Global, JF Lehman, and Hill City Capital	Air Cargo	
Mar-23	Golden Isles Aviation (St. Simons, GA)	Odyssey Aviation	FBO	
Mar-23	Dolphin Aviation (Sarasota, FL)	Hawthorne Global Aviation Services	FBO	
Feb-23	Western Jet Aviation	StandardAero	MRO	
Feb-23	Constant Aviation (Cleveland, OH)	Directional Aviation (AKA FlexJet)	MRO	
Jan-23	Dumont (Charter Division)	Rennia Aviation	Charter	
Nov-22	Northeast Aero Compressor (Bohemia, NY)	Jet Parts Engineering	MRO	
Nov-22	Associated Aircaft Manufacturing & Sales, Inc	First Aviation Services	MRO	
Oct-22	UltraAir (Omaha, NE)	Four Corners Aviation	Charter	
Oct-22	TCR International	3i Infrastructure	Ground Handling	
Oct-22	Mystic Jet Center (3 locations)	Modern Aviation	FBO	
Sep-22	Skytech (2 locations)	Pilatus	Charter / MRO	
Sep-22	Mayo Aviation (Centennial, CO)	Priester Aviation	Charter	
Sep-22	Textar Aviation (Dallas, TX)	Atlantic Aviation	FBO	
Sep-22	Elliot Aviation (Des Moines, IA)	Modern Aviation	FBO	
Sep-22	Odyssey Aviation (2 locations)	Granite Creek Capital Partners	FBO	
Aug-22	Menzies	Agility	Ground Handling	
Aug-22	Four Points Aero Services (Dallas, TX)	Elliot Aviation	MRO	
Aug-22	Blue Heron Aviation (Turks & Caicos)	Atlantic Aviation	FBO	
Jul-22	Skycharter (Halifax, Nova Scotia)	IMP Group	Charter	
Jul-22	Signature Flight Support (3 locations)	Atlantic Aviation	FBO	•
Jul-22	TAC Air (17 locations)	Signature Aviation	FBO	•

MARKET UPDATE AND ANALYSIS

Recent Debt Capital Markets Transactions

			Amount (\$ millions)				Term Loan B		2nd Lien
Launch Date	Company	Corporate Rating	Total	TLB	RC	2nd Lien	Spread (bps)	Floor (bps)	Spread (bps)
Aug-24	JetBlue	B-/B3	\$765	\$765			550	50	
Jun-24	Atlas Air	BB-/Ba1	\$992	\$992			375		
Jun-24	Signature Aviation	B+/B2	\$1,853	\$1,853			275	50	
May-24	Industria de Turbo Propulsores SA	B/B2	\$272	\$272			375	50	
May-24	Novaria Group	B-/B2	\$320	\$320			425		
May-24	Vertex Aerospace	B+/B1	\$907	\$907			275		
May-24	TransDigm Inc	B+/B1	\$3,640	\$3,640			250	75	
May-24	Ontic	B/B2	\$1,425	\$1,425			325		
Mar-24	Swissport International AG	B+/B2	\$500	\$500			425		
Mar-24	TransDigm Inc	B+/B1	\$4,525	\$4,525			275		
Feb-24	Novaria Group		\$40	\$40			550	100	
Nov-23	Atlantic Aviaiton Corporation	B/B2	\$1,069	\$1,069			350	50	
Nov-23	TransDigm Inc	B+/B1	\$1,000	\$1,000			325		
Oct-23	Industria de Turbo Propulsores SA	B/B2	\$200	\$200			375	50	
Sep-23	Vertex Aerospace	B1/B+	\$913	\$913			300	75	
Aug-23	Standard Aero Holdings Inc	B3/B-	\$2,575	\$2,575			400		
Jul-23	Ontic (8/23)	B2/B	\$957	\$957			400		
May-23	Atlantic Aviation (6/23)	B/B2	\$750	\$750			400	50	
Apr-23	Signature Aviation (5/23)	B+/B2	\$400	\$400			375	50	
eb-23	American Airlines (Extend 3/23)	B-/B2	\$1,000	\$1,000			275		
eb-23	Castlelake Aviation (Add-on 3/23)	BB-/Ba3	\$635	\$635			275	50	
Sep-22	Ontic (Add-on 10/22)	B/B2	\$85	\$85			450		
Jul-22	Atlantic Aviation (Add-on TL 8/22)	B/B2	\$425	\$325	\$100		400	50	
Jun-22	Signature Aviation (7/22)	B+/B1	\$1,100	\$1,100			375	50	
Feb-22	Ontic (Add-on 3/22)	B/B2	\$80	\$80			400		
Oct-21	Signature Aviation (Add-on 11/21)	B+/B1	\$330	\$330			275	50	
Oct-21	Atlantic Aviation (Add-on 11/21)	B/B2	\$330	\$330			300	50	
Sep-21	Castlelake Aviation (TL 10/21)	BB-/Ba3	\$1,730	\$980	\$750		275	50	
Jul-21	Avolon (Amend 8/21)	BBB-/Baa3	\$672	\$672			225	50	
Jul-21	Ontic (Add-on 8/21)	B/B2	\$140	\$140			400		
Jul-21	Air Canada (TL 8/21)	B+/Ba3	\$2,900	\$2,300	\$600		350	75	
Jul-21	Atlantic Aviation (TL 8/21)	B/B2	\$1,925	\$1,350	\$225	\$350	300	50	575
Apr-21	Gogo (TL 5/21)	B-/B3	\$825	\$725	\$100		375	75	
Apr-21	Signature Aviation (TL 5/21)	B+/B1	\$2,035	\$1,685	\$350		275	50	
Apr-21	United Airlines (TL 5/21)	B+/Ba2	\$6,750	\$5,000	\$1,750		375	75	
Mar-21	American Airlines (4/21)	B-/B2	\$3,500	\$3,500			475	75	
eb-21	Ontic (Amend 3/21)	B-/B3	\$551	\$551			400		
Nov-20	Avolon Aerospace (12/20)	BBB-/Baa3	\$675	\$675			250	75	
Sep-20	Fly Leasing (10/20)	BB/B1	\$180	\$180			600	100	
Sep-20	Delta SkyMiles (10/20)		\$3,000	\$3,000			375	100	
Jun-20	JetBlue (7/20)	B+/Ba2	\$750	\$750			525	100	
Apr-20	Delta Air Lines (5/20)	BB/Baa3	\$1,500	\$1,500			475	100	
eb-20	Avolon Aerospace (3/20)	BBB-/Baa3	\$850	\$850			150	75	
Jan-20	American Airlines (Amend 2/20)	BB-/Ba3	\$1,220	\$1,220			175		
		,							

Premier, Global Boutique

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Firm Snapshot

24

offices worldwide

850+

M&A advisory transactions since 2019

~2,000

total employees

\$770B+

M&A and financing activity since 2019

~650

investment banking employees

100%

owned by active partners

M&A Expertise Since 2019



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Global Footprint



Selected Aviation Services Transaction Experience











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