

Aerospace & Defence - Q1 2022 Industry Update



We end the first quarter in a position not seen since 1945. Full scale conventional warfare on the European mainland was not a likelihood predicted by any defence ministry in the region. Against the backdrop of human tragedy the re-appraising of defence priorities, and ultimately budgets, across Europe to respond to this reality is an unsurprising outcome of the Russian invasion. It is too early to draw conclusive lessons but if there is one immediate lesson to be drawn from 4 weeks of hostilities, it is that knee jerk investments in hardware when not accompanied by the pre-requisite logistics capability and a motivated and trained military is no guarantee of delivering the required effect.

There can be no doubt that Europe is now a changed market for defence. Only Germany, so far, has made an immediate commitment (to the tune of €100bn) but it is unlikely that those EU and NATO members that are not dedicating 2% of GDP to defence will be allowed by the treaty partners to continue to do so; a credible threat and collective peer pressure will be more effective than unilateral US efforts to change this paradigm. Barclays assess that meeting these targets will deliver a £60bn increase per year in defence spending across Europe, with equipment accounting for 30-40% of this, and the largest spend expected to be in Germany, Italy, the Netherlands and Spain.

It is too early to predict the capabilities that will be the major beneficiaries but progress of the war so far has done nothing to suggest a major shift from the existing focus for investment, namely: ISTAR and C4I along with the synthetic capability to train in a geographically and financially constrained environment. Equally from a major programme perspective events have merely reinforced the status quo with increased orders of the J35. Following on the heels of the Finnish and Swiss orders, Germany opted for the J35 over the cheaper F-18 they had been previously considering. Inter-operability across allies in Belgium, Denmark, Italy, the Netherlands, Norway, Poland and the UK is obviously now a more important consideration than cost.

The impact on the defence supply chain is as yet uncertain. Prior to events in Ukraine, US primes, following years of frustration at anaemic defence budgets in Europe were turning their attentions back to the more robust domestic defence market. Added opportunity in Europe, combined with a signal via the Rocketdyne transaction, that the US DoD is concerned that consolidation and vertical integration in the US market may inflate pricing, means that their European subsidiaries may no longer be candidates for divestment.

Unlike previous geo-political events since the end of the Cold War this is unlikely to be a blip that is quickly resolved. It was the decrease in defence spending following the end of the Cold War that drove the wave of defence consolidations over the last twenty years and left a market dominated by a small number of megaliths. The sustained growth in defence spending that will follow recent events combined with a reluctance from Governments to sanction further consolidation will most likely see the re-emergence of mid-cap defence players.

Aerospace

Company	Country	Market Cap (GBPm)	Net Debt / (Cash)	Adj EV (GBPm)	Net debt / EBITDA (2022)	EV/Revenue			EV/EBITDA			EV/EBIT			2 Year CAGR 2021-2023	
						Revenue (GBPm)	Revenue growth	2021	2022	2023	EBITDA (GBPm)	EBITDA %	2021	2022	2023	Sales
Airbus SE	France	73,462	(1,164)	76,850	n/a	1.8x	1.5x	1.3x	13.8x	11.0x	8.8x	20.6x	15.7x	11.8x	16%	25%
						43,800	50,122	58,632	5,587	7,017	8,689	3,733	4,900	6,520		
Boeing Company	USA	86,008	32,050	123,947	5.2x	2.7x	2.0x	1.7x	nmf	20.2x	15.4x	nmf	29.3x	19.8x	24%	174%
						45,999	61,880	70,963	1,076	6,136	8,071	(518)	4,231	6,275		
Bombardier Inc.	Canada	2,111	4,166	7,085	6.4x	1.6x	1.4x	1.3x	26.4x	10.9x	8.1x	49.2x	22.9x	14.4x	11%	80%
						4,494	5,059	5,555	269	649	871	144	310	491		
Dassault Aviation SA	France	10,101	(3,991)	4,545	n/a	0.7x	0.9x	0.9x	7.9x	8.7x	7.6x	10.1x	11.9x	11.2x	(9%)	2%
						6,092	5,027	5,014	577	524	602	451	384	407		
HEICO Corporation	USA	14,217	84	14,520	0.2x	nmf	8.7x	7.8x	39.6x	32.3x	28.7x	46.0x	38.9x	34.0x	15%	17%
						1,398	1,668	1,853	367	450	506	316	374	427		
Meggitt PLC	UK	5,928	778	6,785	2.2x	4.6x	4.0x	3.5x	28.6x	18.8x	15.9x	nmf	27.3x	21.8x	14%	34%
						1,489	1,680	1,936	237	360	427	103	249	311		
MTU Aero Engines AG	Germany	9,515	523	10,392	0.7x	3.0x	2.4x	2.1x	22.3x	14.2x	12.3x	34.5x	20.7x	17.1x	19%	35%
						3,517	4,393	4,952	467	732	846	302	503	609		
Rolls-Royce Holdings plc	UK	8,460	5,254	13,336	3.5x	1.2x	1.1x	1.0x	10.5x	8.8x	6.7x	28.7x	19.5x	13.4x	8%	25%
						11,218	11,912	13,202	1,268	1,522	1,987	465	682	997		
Safran SA	France	38,685	1,597	39,586	0.5x	3.1x	2.6x	2.2x	17.9x	13.6x	11.0x	37.7x	19.4x	15.2x	17%	28%
						12,845	15,307	17,723	2,206	2,913	3,591	1,049	2,036	2,608		
Senior plc	UK	525	153	674	2.2x	1.0x	0.9x	0.8x	11.9x	9.9x	7.1x	nmf	27.2x	14.3x	12%	29%
						659	735	827	57	68	94	10	25	47		
Singapore Technologies Engineering Ltd	Singapore	7,218	716	8,037	1.1x	1.9x	1.6x	1.5x	14.4x	12.1x	10.6x	22.4x	19.3x	16.5x	14%	17%
						4,214	5,052	5,465	559	662	759	359	416	487		
Textron Inc.	USA	12,241	1,644	13,885	1.2x	1.4x	1.3x	1.2x	11.8x	10.4x	9.6x	15.6x	13.8x	12.6x	8%	11%
						9,925	10,911	11,524	1,179	1,336	1,447	888	1,008	1,100		
Thales S.A.	France	20,510	739	22,382	0.3x	1.6x	1.5x	1.4x	11.8x	9.8x	8.9x	21.9x	14.1x	12.3x	7%	15%
						13,600	14,479	15,519	1,895	2,290	2,523	1,022	1,591	1,827		
Min						0.7x	0.9x	0.8x	7.9x	8.7x	6.7x	10.1x	11.9x	11.2x	(9%)	2%
Mean						2.0x	2.3x	2.1x	18.1x	13.9x	11.6x	28.7x	21.5x	16.5x	12%	26%
Median						1.7x	1.5x	1.4x	14.1x	11.0x	9.6x	25.5x	19.5x	14.4x	14%	25%
Max						4.6x	8.7x	7.8x	39.6x	32.3x	28.7x	49.2x	38.9x	34.0x	24%	174%

Source: CapIQ.

Note: Multiples are based on enterprise value as of 31 March 2022 and historical and forecast sales. EBITDA and EBIT, calendarised to 31 December. "nmf": not meaningful; "n/a": not available. Adjusted EV takes into consideration IFRS16.

Market valuations of defence businesses are 35% up on the FTSE year to date, and not exclusively due to events in Europe; more specifically the US defence budget outlook is looking increasingly favourable and more generally investors are shifting away from growth to cyclical value stocks. It is likely that the ESG headwinds, which started amongst institutional investors in 2017, will be reviewed in the light of events in Ukraine. Whilst this will start to have a more immediate effect on listed stocks it is likely that the European private equity funds will need to wait until their next fund raising cycle to secure the same freedoms as their US peers. We expect to see those specialist US funds being more active in European processes whilst the market is more buoyant but less crowded.

So far the impact on the civil aerospace market has been muted but there are undoubtedly significant delayed repercussions that will severely impact the supply chain at the critical moment when re-stocking is in train and robust demand from the narrow body and business jet market filters through. The most immediate impact will be driven by the reduced access to titanium, nickel and natural gas. On the latter front most suppliers are hedged and so have time for Governments to scrabble around and unlock alternate sources. A few however are not, and the prospect of turning from a metal processing and manufacturing business to a gas trading house will test internal capabilities and balance sheets. Without access to titanium and nickel there is no option but to reduce build rates which will impact the recovery that people are now starting to bake into forecasts. Of less immediacy but of more long term impact are the impacts on the global supply chain. We believe that events in Ukraine will cause a re-assessment of long term supply chain strategy, particularly amongst the US primes. Previously the size of the Chinese market and the cost efficiency of manufacturing facilities there was deemed reason enough to justify offshoring significant activities. Recent months have demonstrated the fragility of the global supply chain, highlighted the costs and time to transfer unfinished components between different processes on a global basis and elevated risk as a major consideration. All of which will drive a level of near shoring not previously seen in the supply chain. There is no doubt that, absent the near term headwinds outlined above, investors are returning to the commercial aerospace market; whereas a low cost manufacturing facility had previously been considered an asset, it may now, dependent on location, be deemed a liability for which little value is attributed.

Defence

					EV/Revenue Revenue (GBPm) Revenue growth			EV/EBITDA EBITDA (GBPm) EBITDA %			EV/EBIT EBIT (GBPm) EBIT %			2 Year CAGR 2021-2023				
Company	Country	Market Cap	Net Debt	Net debt / (Cash)	Adj EV	EBITDA (2022)	2021	2022	2023	2021	2022	2023	2021	2022	2023	Sales	EBITDA	
		(GBPm)	(GBPm)	(GBPm)	(GBPm)	(2022)												
BAE Systems plc	UK	22,567	3,594	28,031	1.2x	19,521	1.4x	1.3x	1.2x	11.5x	9.4x	9.0x	1,844	2,375	2,492	9%	13%	
Elbit Systems Ltd.	Israel	7,373	882	8,131	1.9x	3,898	2.1x	1.9x	1.8x	19.8x	17.2x	16.1x	503	370	398	7%	11%	
General Dynamics Corporation	USA	50,934	8,546	61,409	2.2x	28,410	2.2x	2.1x	1.9x	15.8x	15.6x	14.1x	4,343	3,246	3,675	6%	6%	
Kratos Defense & Security Solutions, Inc.	USA	1,942	26	1,979	0.4x	606	3.3x	2.9x	2.6x	47.5x	29.5x	23.4x	23	25	44	12%	43%	
L3Harris Technologies, Inc.	USA	36,492	5,167	42,036	1.8x	13,156	3.2x	3.1x	3.0x	15.6x	14.5x	13.8x	2,013	2,514	2,666	3%	6%	
Leidos Holdings, Inc.	USA	11,204	3,789	15,014	3.4x	10,145	1.5x	1.4x	1.3x	13.7x	13.5x	12.7x	877	867	956	5%	4%	
Leonardo S.p.a.	Italy	4,385	2,692	5,992	1.9x	11,872	0.5x	0.5x	0.5x	5.0x	4.2x	3.9x	1,207	1,424	1,555	867	1,025	
Lockheed Martin Corporation	USA	91,445	7,014	105,007	0.9x	49,513	2.1x	2.1x	2.0x	15.8x	13.8x	13.5x	6,654	7,626	7,782	5,896	6,573	
Northrop Grumman Corporation	USA	53,109	7,909	62,976	2.1x	26,341	2.4x	2.3x	2.2x	9.8x	17.0x	16.2x	6,450	3,701	3,876	5,650	2,753	
Raytheon Technologies Corporation	USA	111,774	18,995	134,847	2.0x	47,552	2.8x	2.6x	2.4x	16.1x	14.2x	12.4x	8,400	9,519	10,854	5,139	6,400	
Rheinmetall AG	Germany	7,030	(249)	7,431	n/a	4,752	1.6x	1.3x	1.1x	10.2x	8.7x	7.7x	726	857	964	526	613	
Saab AB (publ)	Sweden	3,670	(173)	3,967	n/a	3,198	1.2x	1.2x	1.1x	11.3x	9.5x	8.6x	350	417	460	233	294	
Ultra Electronics Holdings plc	UK	2,371	40	2,437	0.2x	851	2.9x	2.7x	2.5x	16.5x	15.0x	13.9x	148	162	175	119	138	
Min						0.5x	0.5x	0.5x	0.5x	5.0x	4.2x	3.9x	5.26	5.8x	5.3x	2%	(22%)	
Mean						15%	1.9x	1.8x	1.7x	16.0x	14.0x	12.7x	18%	17.7x	16.4x	17.4x	7%	10%
Median						15%	2.1x	2.1x	1.9x	15.6x	14.2x	13.5x	11%	17.5x	17.0x	15.8x	6%	11%
Max						17%	3.3x	3.1x	3.0x	47.5x	29.5x	23.4x	17%	26.7x	22.9x	45.4x	17%	43%

Source: CapIQ.

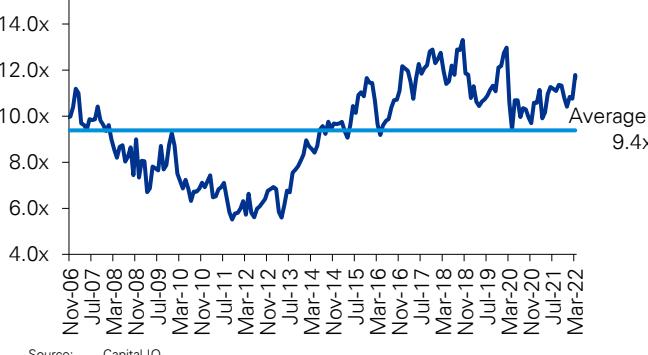
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Sector valuation through the cycle (EV/LTM EBITDA)

Aerospace



Defence



Source: Capital IQ

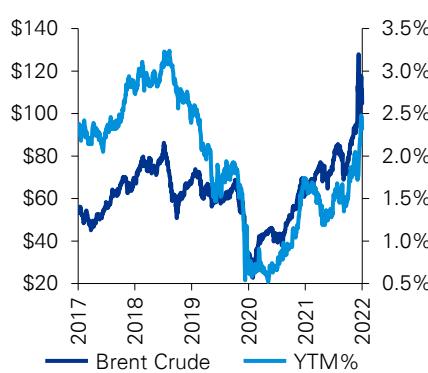
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Selected recent M&A activity headlines

- Jan 2022 - **Electra.aero**, a developer of hybrid-electric ultra-short takeoff and landing (eSTOL) aircraft, received an investment from **Lockheed Martin Ventures**
- Jan 2022 - **Rheinmetall** acquired a 75% stake in an e-mobility and green energy joint venture with US specialist **PolyCharge America, Inc.**
- Jan 2022 - **Triman Industries**, a portfolio company of **AE Industrial Partners**, acquired **Brighton Cromwell and Crestwood Technology Group** provider of military aftermarket supply chain management
- Jan: **Curtiss-Wright Corporation** agreed to acquire the assets of **Safran Aerosystems Arresting Company**, designer and manufacturer of aircraft emergency arresting systems
- Feb 2022: **HEICO Corporation** agreed to acquire 74% of **Pioneer Industries** specialty distributor of spares for military aviation, marine and ground platforms
- Feb 2022 - **EMCORE Corporation** agreed to acquire the assets and liabilities of the **L3Harris Space and Navigation Business**
- Feb 2022 - **Daher Aerospace** agreed to acquire the **Florida Aerostructures business** of **Triumph Group**
- Mar 2022 - **Cranfield Aerospace Limited** received equity funding including participation from **Safran Corporate Ventures** and **Hydrogenone Capital Growth Plc**
- Mar 2022: **BAE Systems plc** agreed to acquire **Bohemia Interactive Simulations** provider of training and simulation software products and components for defence and civilian applications
- Mar 2022 - **TransDigm Group** agreed to acquire **Dart Aerospace** Limited provider of unique helicopter mission equipment solutions
- Mar 2022 - **Vectrus, Inc.** and **The Vertex Company**, a portfolio company of **American Industrial Partners**, entered into an all-stock merger
- Mar 2022 - **DC Capital Partners** acquired **uAvionix Corporation** provider of small form factor communications, navigation, and surveillance avionics for unmanned and manned aircraft

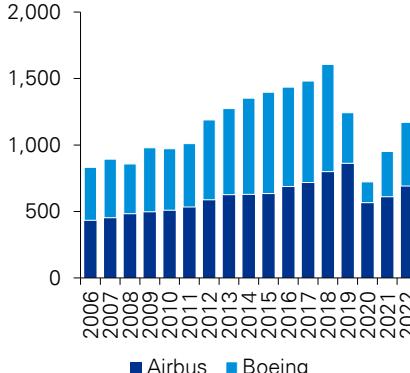
Economic indicators

Brent Crude (\$ vs. US 10 Yr Treasuries



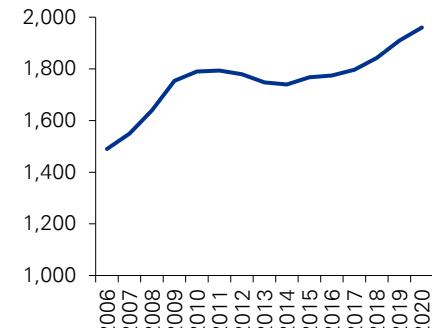
Source: Capital IQ

Delivered Commercial Aircraft (Units)



Source: Airbus and Boeing annual report, UBS, JPMorgan, Barclays.

Global Defence Spend (\$bn)



Source: SIPRI Military Expenditure Database

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The information in this document is based on data obtained from Bloomberg, CapitalIQ, EIU, Mergermarket, WTO and is based on KPMG analysis.

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