### Q2: Quarterly Industry Update

AS OF June 30, 2018



### Aerospace and Defense

**INDUSTRY SUMMARY** 

COGENT VALUATION Aerospace and Defense publicly traded companies, IPOs, and recent M&A transactions within the Aerospace and Defense industry, which provides a basis for market and transaction pricing that can be used by your firm in estimating market sentiment and its impact on your firm's value. Over the last year since June 30, 2017, the median 52-week share price return of the Aerospace and Defense industry was 18.0%. Between June 30, 2016 and June 30, 2018, the median EV/EBITDA multiple increased from 10.9 to 13.7. Furthermore, the median price-to-earnings multiple increased from 23.2 to 30.5 over the same period. The median revenue growth and EBITDA margins for the industry for the quarter were 0.3% and 10.8%, respectively.

Public Company Key Statistics

Median	52-Week
Return	

7.2%

Median EV/EBITDA Multiple

13.7x

Median Year to Date Return

1%

Median Price/Earnings Multiple

30.5x

Median EV/Revenue Multiple

1.6x

Median EV/Gross CF Multiple

27.8x

Highest Return

Lowest Return

Median Return

#### Comparable Public Company Market Price Returns as of June 30, 2018

	YTD	3 Month	1 Year	2 Year	3 Year	2016	2015	20
AAR Corp.	12.3%	12.3%	31.2%	4.4%	8.0%	25.7%	-5.4%	-0
Ability Inc.	-25.5%	-25.5%	-83.4%	N/A	N/A	-72.0%	N/A	١
Aerojet Rocketdyne Holdings, Inc.	-10.4%	-10.4%	28.9%	0.5%	2.9%	14.6%	-14.4%	1.
DigitalGlobe, Inc.	-19.0%	-19.0%	62.4%	9.5%	6.2%	83.0%	-49.4%	-6
Ducommun Incorporated	-8.9%	-8.9%	-57.8%	10.9%	6.5%	57.6%	-35.8%	17
Elbit Systems Ltd.	-21.4%	-21.4%	N/A	25.3%	26.0%	15.2%	44.0%	Ν
Embraer S.A.	-15.4%	-15.4%	-12.5%	-22.5%	-20.7%	-35.5%	-17.1%	Ν
Engility Holdings, Inc.	-14.1%	-14.1%	3.4%	6.2%	-9.5%	3.8%	-24.1%	-33
Esterline Technologies Corporation	-10.1%	-10.1%	17.6%	-0.3%	-6.3%	10.1%	-26.1%	30
Northrop Grumman Corporation	-20.9%	-20.9%	-59.5%	27.2%	29.0%	23.2%	28.1%	-14
Orbital ATK, Inc.	48.3%	48.3%	72.5%	15.8%	-9.8%	-1.8%	-23.1%	66
Raytheon Company	8.9%	8.9%	44.4%	29.9%	20.5%	14.0%	15.1%	-32
Rockwell Collins, Inc.	7.9%	8.2%	20.5%	6.7%	10.4%	0.5%	9.3%	0.
SIFCO Industries, Inc.	-13.1%	-17.9%	48.0%	-33.2%	-40.3%	-19.5%	-67.4%	13
Sparton Corporation	-7.8%	4.8%	1.0%	-10.3%	-7.5%	19.3%	-29.5%	1.
Spirit AeroSystems Holdings, Inc.	-0.7%	0.0%	34.7%	2.5%	19.8%	16.5%	16.3%	26
TAT Technologies, Ltd.	16.6%	4.1%	39.9%	22.5%	11.6%	18.2%	10.8%	-16
Teledyne Technologies Incorporated	3.8%	0.9%	28.9%	10.0%	9.5%	38.7%	-13.7%	11
Median of Industry Public Companies	8.4%	2.5%	26.1%	6.7%	6.5%	14.9%	-14.4%	3.

#### Public Company Median Multiples by Quarter

	6/30/18	3/31/18	9/30/17	12/31/16	9/30/16	6/30/16	9/30/16	12/31/16
EV/Revenues Multiple	1.6x	1.5x	1.6x	1.4x	1.3x	1.3x	1.1x	1.3x
EV/EBITDA Multiple	13.7x	14.3x	13.3x	12.1x	11.7x	10.9x	10.4x	10.6x
Price/Earnings Multiple	30.5x	29.9x	27.4x	23.9x	22.7x	23.2x	20.8x	20.7x
EV/Gross Cash Flows Multiple	27.8x	28.4x	25.7x	19.0x	19.9x	25.6x	20.1x	16.8x

## Industry Initial Public Offerings—Aerospace and Defense (dollars in millions, except share prices)

Offer Date		Offer Price	Shares Offered	Amount Raised	Total Assets	Debt	LTM Revenues	LTM EBITDA	LTM Net Income	LTM Cash Flows
5/17/17	Velocity Composites plc	\$1.10	16.5	\$18.7	\$10.6	\$2.9	\$21.8	\$0.0	(\$0.3)	\$0.4
4/26/17	Aquabotix Technology Corporation	\$0.15	35.0	\$5.2	\$4.7	\$0.2	\$0.8	\$0.2	\$0.1	\$0.2
6/20/16	DroneShield Limited	\$0.15	35.0	\$5.2	\$4.7	N/A	N/A	N/A	N/A	N/A
6/7/16	GomSpace Group AB (publ)	\$1.54	8.0	\$12.3	\$4.0	\$1.2	\$4.9	\$0.6	\$0.2	\$0.8
11/18/15	Hizeaero Co., Ltd.	\$15.42	4.4	\$67.5	N/A	\$30.9	N/A	\$5.8	\$2.5	\$7.1
9/30/15	LIG Nex1 Co., Ltd.	\$64.19	6.9	\$442.9	\$1,569	\$136.2	\$1,475.5	\$126.3	\$58.8	\$153.2
2/23/15	Martin Aircraft Company Limited	\$0.30	67.5	\$20.3	\$1.1	\$0.0	\$0.0	(\$3.2)	(\$3.2)	(\$3.1)
12/22/14	Aerospace Technology Of Korea, Inc.	\$8.66	2.9	\$24.7	N/A	N/A	N/A	N/A	N/A	N/A
11/16/14	Strat Aero Plc	\$0.13	8.1	\$1.0	N/A	N/A	N/A	N/A	N/A	N/A
7/9/14	Starburst Holdings Limited	\$0.25	50.0	\$12.5	\$35.8	\$6.0	\$29.9	\$8.4	\$6.9	\$8.7
6/24/14	FACC AG	\$12.91	20.4	\$263.3	\$819.3	\$292.3	\$771.4	\$114.4	\$39.9	\$129.6
12/22/13	Figeac Aero Société Anonyme	\$12.59	1.9	\$24.0	\$291.5	\$113.1	\$205.1	\$39.3	\$15.3	\$50.5
6/27/13	Delta Drone SA	\$6.37	0.6	\$3.8	\$6.7	\$1.8	\$2.7	(\$0.8)	(\$0.6)	(\$0.7)
4/10/12	Erickson Incorporated	\$8.00	3.8	\$38.4	\$245.5	\$131.9	\$160.0	\$25.0	\$15.9	\$32.3
11/28/11	AVTECH Sweden AB (publ)	\$0.86	2.5	\$2.2	N/A	\$1.1	\$0.0	\$0.1	\$0.0	\$0.2
	Median of all IPOs	nm	nm	\$18.7	\$10.6	\$4.4	\$21.8	\$3.2	\$1.3	\$3.9

Multiple year periods are calculated as the average annual return.

Highest Return Lowest Return Median Return

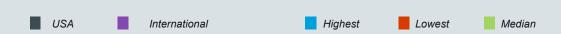
# Recent Merger and Acquisition Transactions for a Majority Stake (dollars in millions)

Transaction Date	<sup>1</sup> Target	Acquirer	Transaction Size	% Bought	LTM Revenues	LTM EBITDA	EV/ Revenues	EV/ EBITDA
6/6/18	Orbital ATK, Inc.	TransDigm Group	\$9,429.0	100%	\$346.2	\$34.3	1.2x	12.5x
4/24/18	<b>Extant Components Group</b>	Safran SA	\$525.0	100%	N/A	N/A	N/A	N/A
3/2/18	Zodiac Aerospace	NTC Group, Inc.	\$9,763.8	100%	\$186.6	N/A	2.2x	N/A
1/9/18	Tenax Aerospace, LLC	Zhejiang Science and Technology Investment Co., Ltd.	\$220.0	100%	N/A	N/A	N/A	N/A
12/31/17	Acro Aircraft Seating Ltd.	Littelfuse, Inc.	\$73.7	100%	N/A	N/A	N/A	N/A
7/10/17	U.S. Sensor, Corp.	Advanced Energy Industries, Inc.	\$24.0	100%	N/A	N/A	N/A	N/A
7/5/17	Excelsys Technologies Ltd.	Sonaca SA	\$17.6	100%	\$2,861.7	\$606.3	2.8x	13.3x
6/27/17	LMI Aerospace, Inc.	Liberty Hall Capital	\$432.3	100%	N/A	N/A	N/A	N/A
5/31/17	Dunlop Aircraft Tyres Ltd.	Chengdu Aerospace	\$135.0	100%	\$263.5	\$22.4	1.3x	15.6x
5/2/17	Aerospace Holdings, Inc.	Harlow Aerostructures	\$405.6	100%	N/A	N/A	N/A	N/A
4/28/17	Aero-Missile Components	Apollo Aerospace Components	\$8.0	86%	N/A	N/A	N/A	N/A
4/13/17	B/E Aerospace, Inc.	Rockwell Collins, Inc.	\$365.7	100%	N/A	N/A	N/A	N/A
1/9/17	Jiffy Air Tool, Inc.	Florida Pneumatic Mfg.	\$27.5	100%	\$5.2	N/A	5.3x	N/A
1/4/17	Teletronics Technology Corp.	The KEYW Corporation	\$233.0	100%	N/A	N/A	N/A	N/A
12/22/16	Pacific Safety Products Inc.	Astronics Custom Control	\$11.9	100%	\$15.0	\$0.4	0.8x	26.5x
12/21/16	LATECOERE Services SAS	Groupe ADF SAS	\$67.4	100%	\$113.5	N/A	0.6x	N/A
12/9/16	IPI Solutions Ltd.	Ideagen PLC	\$8.9	100%	\$2.1	\$0.4	3.3x	16.5x
12/1/16	Camber Corporation	Huntington Ingalls	\$380.0	100%	\$364.0	N/A	1.0x	N/A
11/16/16	The Radiant Group, Inc.	DigitalGlobe, Inc.	\$140.0	100%	N/A	N/A	N/A	N/A
	USA International	Highest Lowest	Median				(Continued on	next page)

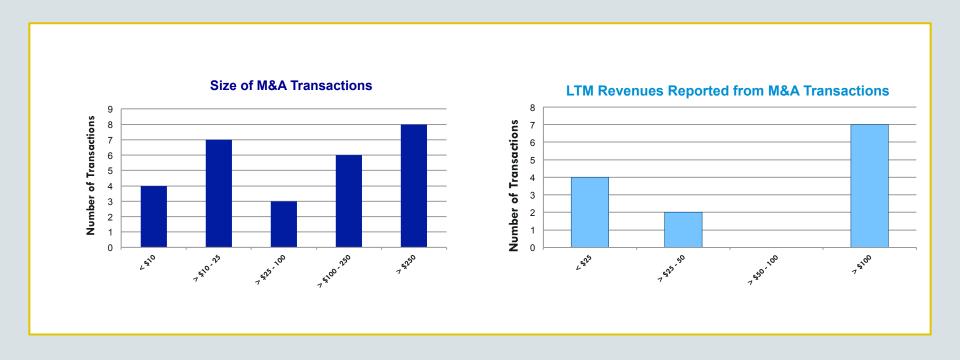
# Recent Merger and Acquisition Transactions for a Majority Stake (dollars in millions)

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Transaction Date	Target	Acquirer	Transaction Size	% Bought	LTM Revenues	LTM EBITDA	EV/ Revenues	EV/ EBITDA
10/17/16	NanoSpace AB	GS Sweden AB	\$11.9	100%	\$364.0	N/A	1.0x	N/A
9/16/16	Honeywell Technology	KBR Holdings, LLC	\$67.4	100%	N/A	N/A	N/A	N/A
9/9/16	American Science	OSI Systems, Inc.	\$8.9	100%	N/A	N/A	N/A	N/A
8/26/16	<b>Crimson Trace Corporation</b>	Smith & Wesson	\$380.0	100%	N/A	N/A	N/A	N/A
8/1/16	Explomo Technical Services	N/A	\$140.0	100%	\$103.0	(\$0.4)	1.8x	N/A
7/22/16	Kreisler Manufacturing	United Flexible, Inc.	\$140.0	100%	\$44.0	N/A	2.2x	N/A
7/14/16	Sarl Techno-Meca	Tecnoquark Trust, S.A.	\$2.2	100%	N/A	N/A	N/A	N/A
7/11/16	Kent Periscopes Ltd.	Gooch & Housego plc	\$34.5	100%	\$34.4	\$3.7	0.8x	7.6x
	Median of the 28 M&A Transaction	Targets	\$2.8	100%	\$3.3	\$0.7	0.8x	4.2x



## Recent Merger and Acquisition Transactions for a Majority Stake (dollars in millions) as of June 30, 2018





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for additional information or questions in connection with this research report.



**Definitions of Financial Terms Used in this Quarterly Industry Update:** 

Enterprise Value (EV): Market Value of Equity + Market Value of Debt —Cash

**Earnings Before Interest, Taxes, Depreciation and Amortization (EBITDA)**: Profitability metric sometimes also referred to as operating profit or operating earnings.

**Gross Cash Flows:** Net Income + Depreciation and Amortization Expense Latest Twelve Months (LTM): Financial information is as of the latest twelve months through the date of this Quarterly Industry Update.

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