



Firm Valuation and Analysis

Group 4

Background

- Headquarters: San Diego, CA
- Founded: 1994 by Massih and Masood Tayebi
- Leadership:
 - President and CEO: Eric DeMarco
 - VP and CFO: Deanna Lund
 - President of Defense and Rocket Support Services Division: Dave Carter
 - President of Unmanned Systems Division: Steven Fendley
 - o President of Space, Training, and Cyber Division: Phil Carrai

Eric DeMarco



Steven Fendley



Phil Carrai





Kratos Defense & Security Solutions serves primarily serves as a contractor for the U.S. Department of Defense and operates the following segments...

Unmanned Systems

Aerial Systems

- Tactical (Air Supremacy) Vehicles
 - Swarming System Solutions
- Aerial Target Systems & Solutions

Ground-based and Seaborne Systems

- Ground Target & Training Systems
 - Leader/Follower Systems
 - Automated Work Zone Systems

Government Solutions

Microwave Electronics
Space Solutions
Training, Cybersecurity, & Warfare
Satellite Communications
C5ISR (Command & Control) Systems
Turbine Technologies
Defense Support Solutions



Products

High Mobility Ground Vehicle Target















Sector Overview

Primary Classification: Aerospace and Defense

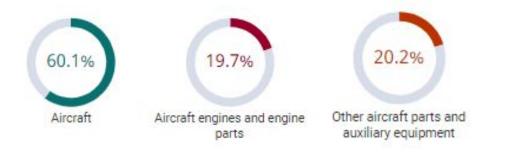
A&D Maintenance and Services Aircraft Systems, Components and Equipment Defense Electronics Guided Missiles and Components

Secondary Classification: Information Technology

Security, Control, Surveillance and Detection Equipment (Radars, C5ISR, etc.)





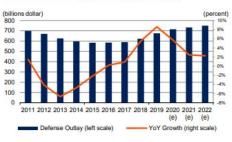




Risk Factors and Growth Prospects

- A large portion of Kratos's revenue comes from government contracts, meaning a change in how contracts are given out, a change in the amount of contracts given out, or a change in defense spending could have significant impact on the company
- Biden administration looks to slash Defense spending
- Multiple customers individually account for over 10% of the company's revenue, losing a single one of these customers would significantly affect cash flows
- Performance and earnings depend partially on other companies such as subcontractors and suppliers, no guarantee they can meet expectations
- Cash available can be used to increase R&D and improve technology as it is an important part of this industry
- Low inflation rate (under 2%) allows for market stability and therefore allows for credit to be issued at a lower rate to Kratos customers and easier funding

U.S. Defense Spending (Outlays)





Major Assumptions

Income Statement				Balance Sheet & Other			
	<u>EV</u>	LinR	<u>x</u>		EV	LinR	<u>x</u>
Service Revenue Growth	4.97%	1.584%	0.079%	Inventory (Turns)	11.2	-0.17	
Sales Revenue Growth	11.55%	2.927%	0.338%	AR (Turns - Sales)	2.6	7 0.06	
				Prepaid Expenses (Turns - COGS)	48.1	7 1.20	
COSR (% of Service Revenue)	71.17%	1.942%	1.382%	Other (Turns - Sales)	40.2	-2.17	
COGS (% of Sales Revenue)	75.37%	2.036%	1.535%				
				Operating RTU (Pure Growth)		-	
R&D Expense (% of Revenue)	2.87%	0.080%	0.002%	Net PP&E	Gro	wn by CapEx-	Depreciation
SG&A Expense (% of Revenue)	19.68%	0.529%	0.104%	Goodwill	455.9	3	
Other Oper. Expense (% of Revenue)	NM	NM	NM	Net Intangibles (Change)	31.60)	
				Other Assets (Turns - Sales)	40.8	-12.35	
D&A Core (% of Revenue)	3.40%	0.904%	0.031%				
Net Non-Operating Expenses (% of Revenue)	0.63%	0.153%	0.001%	Accounts Payable (Turns - COGS)	10.0	0.06	
				Other Current Assets (Turns - COGS)	10.7	0.97	
Stock Based Compensation (% of EBITDA)	25.12%	6.839%	1.718%	Accrued Expenses (Turns - COGS)	6.2	0.51	
Net Interest Expense				Paper, Revolver, Curr. Other Liabilities (% CA)	0.007	0.00369	
Taxes (% of EBT)	22.00%		0.50%	Other Liabilities (Turns - Sales)	13.8	-3.50394	
				CapEx (% Sales)	3.76%	11.241%	0.423%
				D&A (% Sales)	3.40%	-4.285%	-0.146%



Cost of Capital & Long-Term Growth

Cost of Debt (Kd)

Structure & Cost (Current)

*Light orange cells represent

Source	Mkt Value	BV Out.	YTW	or Cost*	Weight	Const. Cost
Senior U.	N/A	301		3.276%	77.537%	2.540%
Operating Lease Liab.	N/A	47.5		6.500%	12.236%	0.795%
Finance Lease Liab.	N/A	39.7		6.520%	10.227%	0.667%
	(4)	388.2				4.002%
					AT Kd	3.162%
	Total Debt		Ś	388.200		
			Ş	777777		
	Pre-Tax Cost			4.002%		
	Nominal Tax			21.00%		
	AT Kd			3.162%		

WACC				
	Total	Weight	Cost	Value
Debt	\$ 398.0	10.737%	3.162%	0.33948%
Equity	\$3,308.8	89.263%	5.194%	4.63597%
	\$3,706.8	1.000		4.975%

Long-Term Growt	h									
Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Nominal GDP (\$)	14,992.0	15,543.0	16,197.0	16,785.0	17,527.0	18,238.0	18,745.0	19,543.0	20,612.0	21,433.0
Growth (%)	3.76%	3.68%	4.21%	3.63%	4.42%	4.06%	2.78%	4.26%	5.47%	3.98%
Price Effect (%)										8.68%

Ke (Effective)

Ke

Rf

Rf

EMRP

В

В

Rf

Rf

В

EMRP

Rf

1.650%

2.310%

1.980%

4.110%

0.782

0.760

1.650%

2.310%

4.110%

0.782

5.194%

5.524%

Cost of Equity (Ke)

(10yr Constant Maturity 5/1/21)

(30yr Constant Maturity 5/1/21)

(Damodaran 5/1/21 TTM)

(Beta - 5yr - Monthly - Calc.)

(Beta - 5yr - Monthly - YF)

10yr

30yr Damadoran

Calc. Beta

30Yr Rf

Blended Yield

Blended Yield

LT Growth (%)

4.70%

WACC 4.975%



Competitors and Public Comparables

(in \$mm except for per share amounts)	Market Data				LTM Operating Data and Forward Projections							
Company	Market Cap	% of 52 Week High	Enterprise Value (EV)	LTM Revenue		EBITDA Margin	EV/Sales E	V/EBITDA LTM	P/E LTM	Proj. EBITDA Growth	Net Debt/ EBITDA	
Prime Contractors												
Textron Inc.	\$ 14,500	99.4%	\$ 17,086	\$ 11,697	14.3%	9.3%	1.5x	14.8x	42.2x	-16.7%	2.2x	
Woodward, Inc.	7,881	96.3%	8,532	2,313	25.5%	17.5%	3.7x	20.1x	43.4x	-5.9%	1.4x	
Meggitt PLC	5,009	83.0%	6,077	2,299	31.0%	16.1%	2.6x	15.4x	61.2x	-16.9%	0.0x	
Spirit AeroSystems Holdings, Inc.	4,818	79.1%	6,892	3,405	-12.0%	-9.9%	2.0x	NM	NM	NM	NM	
Mercury Systems, Inc.	4,224	46.4%	4,359	842	44.4%	18.2%	5.2x	26.7x	67.5x	16.4%	0.5x	
Kaman Corporation	1,479	78.7%	1,582	784	31.3%	14.9%	2.0x	12.9x	86.7x	10.8%	0.8x	
AAR Corp.	1,406	83.4%	1,573	1,631	12.4%	3.0%	1.0x	19.6x	NM	-38.5%	1.5x	
Kratos Defense & Security Solutions, Inc.	3,309	62.9%	3,331	748	27.2%	7.5%	4.5x	49.0x	NM	3.9%	0.1x	
Mean	5,617	80.9%	6,586	3,282	21.0%	9.9%	2.6x	18.2x	60.2x	-8.5%	1.1x	
Median	4,818	83.0%	6,077	2,299	25.5%	14.9%	2.0x	17.5x	61.2x	-11.3%	1.1x	

Company Name	LTM Gross Margin %
Mercury Systems, Inc. (NasdaqGS:MRCY)	44.4%
Kaman Corporation (NYSE:KAMN)	31.3%
Ducommun Incorporated (NYSE:DCO)	21.9%
Triumph Group, Inc. (NYSE:TGI)	21.3%
HEICO Corporation (NYSE:HEI)	37.8%
Hexcel Corporation (NYSE:HXL)	11.9%
Raytheon Technologies Corporation (NYSE:RTX)	14.8%
AAR Corp. (NYSE:AIR)	12.4%
Aerojet Rocketdyne Holdings, Inc. (NYSE:AJRD)	17.6%
AeroVironment, Inc. (NasdaqGS:AVAV)	40.1%
Kratos Dafansa & Sacurity Solutions Inc (NasdanGS:KTOS)	27 296



Cashflow Build-Up and Equity Valuation

\$mm	Projected Annual Financials									
		2021P		2022P		2023P		2024P		2025P
Period		1		2		3		4		5
Total Revenues		836.3		854.8		873.3		891.9		910.4
EBITDA		63.2		70.3		77.9		85.7		94.0
EBIT		33.9		40.9		48.1		55.8		63.8
Tax Rate		22.5%		23.0%		23.5%		24.0%		24.5%
EBIAT		26.3		31.5		36.8		42.4		48.2
Depreciation and Amortization		28.7		29.0		29.2		29.5		29.7
Change in NWC		(14.5)		(13.4)		(12.7)		(12.4)		(12.3)
Capital Expenditures		(35.0)		(39.4)		(43.9)		(48.6)		(53.5)
Unlevered Free Cash Flows		5.5		7.7		9.4		10.8		12.1
Discount Rate (WACC)		4.975%		4.975%		4.975%		4.975%		4.975%
Discount Factor		95.26%		90.75%		86.45%		82.35%		78.45%
Present Value of Free Cash Flows	\$	5.23	\$	6.96	\$	8.09	\$	8.91	\$	9.50

\$ 38.69

Terminal Value			
Growth in Perpetuity		and a constraint of the constr	
	LT Growth	EV/EBITDA	EV/Sales
LT Growth Rate or Multiple	4.700%	25.00	3.00
WACC	4.975%	4.975%	4.975%
Sum of PV of FCF's	\$ 38.69	\$ 38.69	\$ 38.69
Terminal Value	\$ 3,615.74	\$ 2,350.50	\$ 2,731.30
Present Value of Terminal Value	\$ 2,977.51	\$ 1,843.88	\$ 2,142.60
Enterprise Value			
	LT Growth	Exit Value	
Sum of Present Values of FCF's	\$ 38.69	\$ 38.69	\$ 38.69
Present Value of Terminal Value	\$ 2,977.51	\$ 1,843.88	\$ 2,142.60
Enterprise Value	\$ 3,016.20	\$ 1,882.57	\$ 2,181.29
Enterprise Value	\$ 3,016.20	\$ 1,882.57	\$ 2,181.29
Debt	\$ (398.00)	\$ (398.00)	\$ (398.00)
Cash	\$ 380.8	\$ 380.8	\$ 380.8
Equity Value	\$ 2,999.00	\$ 1,865.37	\$ 2,164.09
Equity Value Per Share	\$ 24.24	\$ 15.07	\$ 17.49
Recent Share Price	\$ 26.74	\$ 26.74	\$ 26.74
30 Day Moving Average	\$ 27.09	\$ 27.09	\$ 27.09
DCF Premium (Discount) to Recent Price	e -9.36%	-43.62%	-34.60%
DCF Premium (Discount) to 30d MA	-10.53%	-44.35%	-35.44%



Sum of Present Values of FCF's

Sensitivity and Scenario Analysis

	100		LT Growth Rate (g)									
		4.550%	4.600%	4.650%	4.700%	4.750%	4.800%	4.850%				
	5.425%	7.44	7.88	8.38	8.95	9.61	10.37	11.26				
	5.175%	10.56	11.47	12.56	13.87	15.48	17.53	20.22				
	5.075%	12.65	13.97	15.60	17.67	20.37	24.05	29.37				
WACC	4.975%	15.72	17.80	20.52	24.24	29.60	38.02	53.19				
	4.875%	20.68	24.42	29.82	38.31	53.59	89.25					
	4.775%	30.05	38.61	54.00	89.93							
	4.675%	54.42	90.62									

				TE	V/EBITDA			
		20.50x	22.00x	23.50x	25.00x	26.50x	28.00x	29.50x
	5.425%	12.13	13.00	13.88	14.76	15.63	16.51	17.38
	5.175%	12.27	13.16	14.05	14.93	15.82	16.70	17.59
	5.075%	12.33	13.22	14.11	15.00	15.89	16.78	17.67
WACC	4.975%	12.39	13.29	14.18	15.07	15.97	16.86	17.76
	4.875%	12.45	13.35	14.25	15.15	16.05	16.94	17.84
	4.775%	12.51	13.41	14.32	15.22	16.12	17.02	17.93
	4.675%	12.57	13.48	14.39	15.29	16.20	17.11	18.01

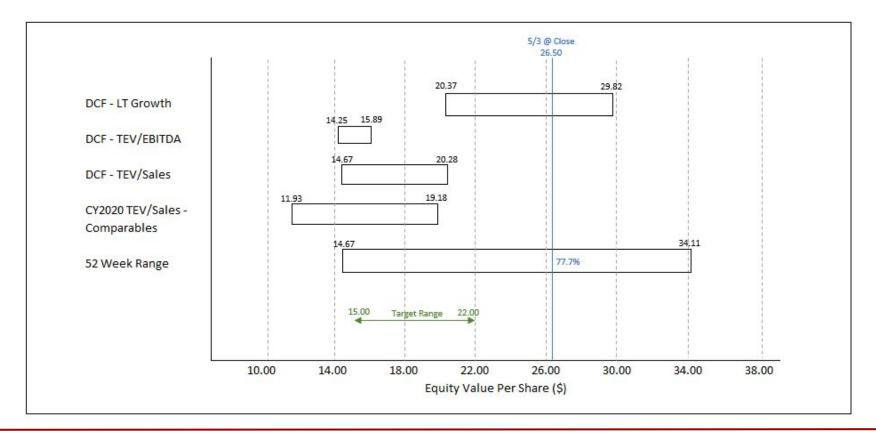
		TEV/Sales										
		1.50x	2.00x	2.50x	3.00x	3.50x	4.00x	4.50x				
ſ	5.425%	8.64	11.47	14.29	17.12	19.94	22.77	25.59				
- 1	5.175%	8.75	11.61	14.46	17.32	20.18	23.04	25.90				
- 1	5.075%	8.79	11.66	14.53	17.41	20.28	23.15	26.02				
CC	4.975%	8.83	11.72	14.60	17.49	20.37	23.26	26.15				
	4.875%	8.87	11.77	14.67	17.57	20.47	23.37	26.27				
- 1	4.775%	8.92	11.83	14.74	17.66	20.57	23.48	26.40				
- 1	4.675%	8.96	11.89	14.81	17.74	20.67	23.60	26.52				

				Sal	es Growth	hi		
	(3)	-0.750%	-0.500%	-0.250%	0.00%	0.250%	0.500%	0.750%
	5.425%	6.09	7.04	8.00	8.95	9.91	10.86	11.81
	5.175%	9.46	10.93	12.40	13.87	15.33	16.80	18.27
	5.075%	12.07	13.94	15.80	17.67	19.53	21.40	23.27
WACC	4.975%	16.58	19.13	21.68	24.24	26.79	29.34	31.90
	4.875%	26.24	30.26	34.29	38.31	42.34	46.36	50.39
	4.775%	61.66	71.08	80.51	89.93	99.36		
	4.675%							

	16_	Expense Rates						
		-1.500%	-1.000%	-0.500%	0%	0.500%	1.000%	1.500%
WACC	5.425%	14.56	12.69	10.82	8.95	7.08	5.21	3.34
	5.175%	22.48	19.61	16.74	13.87	10.99	8.12	5.25
	5.075%	28.61	24.96	21.32	17.67	14.02	10.37	6.73
	4.975%	39.20	34.21	29.22	24.24	19.25	14.26	9.27
	4.875%	61.89	54.03	46.17	38.31	30.45	22.59	14.73
	4.775%				89.93	71.54	53.15	34.76
75	4.675%							



Valuation Summary





Recommendation to Investors







Sources

S&P Net Advantage: Kratos Defense & Security Solutions, Inc. (NasdagGS:KTOS) > Public Company Profile (lehigh.edu)

S&P Net Advantage: <u>Aerospace and Defense > Industry Profile (lehigh.edu)</u>

Yahoo Finance: Kratos Defense & Security Solut (KTOS) Stock Historical Prices & Data - Yahoo Finance

IBISWorld: Industry at a Glance - 33641a Aircraft, Engine & Manufacturing in the US - MylBISWorld (lehigh.edu)

Damodaran Risk Profile: <u>Damodaran On-line Home Page (nyu.edu)</u>

Constant Maturity RateS: 10-Year Treasury Constant Maturity Rate (DGS10) | FRED | St. Louis Fed (stlouisfed.org)

GDP Growth Rates (before inflator & spending adjustments): Gross Domestic Product | U.S. Bureau of Economic Analysis (BEA)

Kratos Financial Statements: Financial Information | Kratos Defense & Security Solutions, Inc

Kratos General Information: <u>Technology innovation for national security | Kratos (kratosdefense.com)</u>

