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# Snap-on Incorporated (SNA-US) Machinery

- We reiterate our Buy rating on SNA as its ongoing value creation process continues to bring new products to market and drive its expansion into other industry verticals.
- While Y/Y business trends are expected to decline slightly, we believe SNA's strong Return on Capital will continue to drive increasing shareholder value creation.
- SNA diversifies its product lines with strategic acquisitions including the recently announced acquisition of rescue toolmaker Power Hawk Technologies.
- SNA continues to drive growth through enhancing its franchise network, improving relationships with shop owners and repair facilities, ongoing expansion to critical industries, and increasing penetration in emerging markets.
- SNA continues to increase shareholder return through ongoing dividend increases and share repurchases.
- SNA is on our Research Focus List and is in our Focused Opportunity Portfolio.

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#### **Company Note**

# Snap-on Incorporated (SNA-US) Machinery

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Research Action:

Reiterate rating

Rating: Buy
Prior Rating: Buy
Price 04/04/2019: \$161.20
52 Week High / \$189.46
Low: \$135.29

Key Data: (TTM as of Dec-18)

**Excess Cash per Share:** -\$1.04 **Annual Dividend:** \$3.80 **Dividend Yield:** 2.36% Avg. Volume (30 Day): 0.6M **Shares Outstanding:** 55.6M Float: 55.0M **Short Interest:** 8.8M SI % / Float 16.06% **Equity MV:** \$8,965.3M Sales TTM: \$4,070.4M Beta: 1.03 EBITDAR: \$1,111.9M NOPAT: \$752.8M **Total Invested Capital:** \$4,856.2M 16.20% Return on Capital: **Cost of Capital:** 6.51% **Economic Profit:** \$450.1M Market Value Added: \$4,847.1M

\$11,558.7M

(\$1,855.5)M

**Current Operations Value:** 

**Future Growth Value:** 

- We reiterate our Buy rating on SNA as its ongoing value creation process continues to bring new products to market and drive its expansion into other industry verticals. SNA also continues to expand its penetration in emerging markets. SNA continues to grow in key Asia Pacific countries including China, India, Indonesia, and Japan. SNA continues to benefit from the ongoing complexity of new vehicles and its own ability to create more technologically-advanced diagnostic equipment to meet this growing and evolving demand. SNA continues to be the leading tool producer for the automotive industry and to expand into other verticals including aerospace, marine, and oil service. SNA also continues to diversify its product lines with strategic acquisitions including the recently announced acquisition of rescue toolmaker Power Hawk Technologies. Even as new car sales start to slow, SNA continues to benefit from increases in service and repair revenue opportunities from the growing number of vehicles and the increase in complexity of vehicles in service. Even as Y/Y business trends are expected to decline, we believe SNA's strong brand equity and innovative capabilities will continue to drive a strong Return on Capital that will continue to drive greater shareholder value creation. SNA also continues to enhance shareholder returns through ongoing dividend increases and share repurchases. We believe significant upside exists in the shares from current levels and continue to recommend purchase.
- While Y/Y business trends are expected to decline slightly, we believe SNA's strong Return on Capital will continue to drive increasing shareholder value creation. For the 12 months ending December 2018, Net Sales Revenue increased 1.75% Y/Y from \$4.0 billion to \$4.07 billion. We forecast a decline of 3% to \$3.81 billion over the NTM. Economic Operating Cash Flow (EBITDAR) increased 11.1% Y/Y from \$1.0 billion to \$1.11 billion over the LTM. We forecast a decline of 6.3% to \$1.04 billion over the NTM. Net Operating Profit After Tax (NOPAT) increased 24.2% Y/Y from \$606.0 million to \$752.8 million over the LTM. We forecast a decline of 1.6% to \$740.8 million over the NTM. Return on Capital (ROC) increased Y/Y from 14.09% to 16.2%. We forecast a slight decline to 15.90% NTM, but at that level, it is still above its three-year and five-year averages. Economic Profit increased 46.25% Y/Y from \$307.8 million to \$450.1 million over the LTM. We forecast a decline of 3.1% to \$436.0 million over the NTM but still above the three-year and five-year average levels which should create additional ongoing compounded growth to the current equity value.



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**Snap-on Incorporated (SNA-US)** 

Machinery

We believe that there are opportunities for an increase to our forecast throughout the year which should also drive incremental gains in Business Performance trends as well as potential further upside to SNA's ability to drive further shareholder value creation.

- SNA diversifies its product lines with strategic acquisitions including the recently announced acquisition of rescue toolmaker Power Hawk Technologies. Earlier this month, SNA announced the acquisition of leading rescue tool manufacturer and distributor Power Hawk Technologies for governmental, fire, military, and other types of rescue and emergency operations. Power Hawk will be part of SNA's Commercial & industrial Group and adds a new dimension to its product portfolio. SNA has had a successful history of expanding its product portfolio through strategic acquisitions. SNA has expanded its product portfolio with a number of acquisitions including BTC Solutions which provides automotive diagnostic software. SNA also acquired two torque tightening and equipment manufacturers, Norbar and Sturtevant Richmont. Which expands SNA beyond its core automotive business to many industries that require precise measures of torque in manufacturing and maintenance of equipment. SNA's acquisition of leading body repair equipment company Car-O-Liner significantly expanded its presence in automotive body repair, and Car-O-Liner is experiencing significant growth in body repair equipment through the ongoing increase use of aluminum in automotive bodies and the unique repair capabilities that it requires. SNA continues to invest in new product development and footprint expansion to go "beyond the garage" into other critical industries including aerospace, oil service, and power generation. SNA manufactures the most innovative, highest quality tools, enabling greater safety and operational improvements
- SNA continues to drive growth through enhancing its franchise network, improving relationships with shop owners and repair facilities, ongoing expansion to critical industries, and increasing penetration in emerging markets. SNA continues to create value through its rapid continuous improvement process (RCI). RCI continues to drive organizational efficiency and cost reduction helping SNA increase sales, expand margins, and improve operating efficiencies. RCI is the key driver of SNA's global manufacturing and supply chain management process, creating a market demand-driven sales base and a lower cost replenishment process. RCI continues to help SNA increase order fill rates and profitability, and continues to drive gross margin improvements.



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**Snap-on Incorporated (SNA-US)** 

Machinery

- SNA continues to increase shareholder return through ongoing dividend increases and share repurchases. In August 2018, SNA increased its quarterly dividend 14.6% from \$0.82 per share to \$0.95 per share which followed a 15.5% increase in its quarterly dividend from \$0.71 per share to \$0.82 per share in 2017. In 2018, SNA repurchased 7.7 million shares for a total of \$284.1 million. At the end of Q4 2018, SNA has about \$216 million in repurchase capacity under its existing repurchase authorization.
- SNA is on our Research Focus List and is in our Focused Opportunity Portfolio. SNA's strong brand equity and market-leading position best positions it to benefit from the increase in demand for vehicle services driven by further evolving vehicle complexity. SNA's innovative ability together with its increasing expansion into other industries, both in the U.S. and internationally, will continue to drive its growth.

#### **Investment Thesis**

SNA is best positioned to take advantage of both the aging vehicle market and the record production of new, technologically-advanced vehicles. SNA's growth will continue to be driven by its dominant position in the automotive repair market supported by the increase in automobile complexity, ongoing global expansion, and growth into additional vertical areas of service and repair including aerospace, HVAC, marine, military, oil service, and power generation. Additional catalysts for growth include expanding its franchise network, greater penetration in critical industries, and growing opportunities in emerging markets. SNA is the market leader, benefiting from its innovative ability to develop and sell the best tools and diagnostic equipment. SNA's strong brand equity and innovative ability will continue to drive an increasing Return on Capital, growing Economic Profit and greater shareholder value creation.



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Snap-on Incorporated (SNA-US)

**Machinery** 

#### **Company Overview**

Snap-on Incorporated (SNA-US) manufacturers and sells the world's leading brand of professional tools, diagnostic equipment, and related solutions for technicians, vehicle service centers, original equipment manufacturers (OEMs) and other professional and industrial users. Its products include professional hand and power tools, vehicle diagnostic and service equipment, tool storage, hydraulic lifts, tire changers and balancers, diagnostic software and business management systems. Snap-on's brands include Snap-on, BAHCO, Blackhawk, Blue-Point, Car-o-Liner, Challenger Lifts, Ecotechnics, Mitchell1, Norbar, ShopKey, Sturtevant Richmont and Sun. SNA sells its products through multiple distribution channels including direct sale and franchise distributors in over 130 countries. Founded in 1920, Snap-on originated the mobile-van tool distribution channel for the automotive repair market. SNA's tools are backed by a lifetime warranty.

#### Snap-on reports revenue and operates in four Business Segments:

**Snap-on Tools Group:** (35% of revenue) Worldwide franchise mobile van channel selling to professional technicians and repair shops.

Repair Systems & Information Group: (29% of revenue) Sells diagnostic equipment, vehicle service information, business management systems, electronic parts catalogs, and other solutions for vehicle service to customers in the global vehicle service and repair market.

**Commercial & Industrial Group:** (29% of revenue) Sells tools and service equipment to a broad range of industrial and commercial users worldwide through direct, distributor and other non-franchise distribution channels in a broad range of industries.

**Financial Services:** (7% of revenue) Provides financing to customers for the purchase or lease of tools, equipment, and diagnostic products as well as business loans and vehicle leases to franchisees.

**Snap-on reports revenue in three Geographic Regions:** United States (67% of revenue); Europe (19% of revenue); and All Other (14% of revenue).



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#### **Snap-on Incorporated (SNA-US)**

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#### **Financial Data**

Report Basis Reported Period Ending	LTM 12/28/2013	LTM 01/03/2015	LTM 01/02/2016	LTM 12/31/2016	LTM 12/30/2017	LTM 12/31/2018	NTM 12/31/2019	5 Yr Average	3 Yr Average	Current Trend
								_	_	
Net Sales Revenue	\$3,237.5	\$3,492.6	\$3,593.1	\$3,727.0	\$4,000.3	\$4,070.4	\$3,810.5	\$3,776.7	\$3,932.6	\$3,940.5
Sales Growth	4.46%	7.88%	2.88%	3.73%	7.33%	1.75%	-6.39%	4.71%	4.27%	-2.32%
Sales Growth Trend	4.55%	6.51%	4.88%	3.39%	5.89%	3.98%	-3.13%	4.93%	4.42%	0.43%
Economic Operating Cash Flow (EBITDAR)	\$712.3	\$818.4	\$879.7	\$975.7	\$1,000.7	\$1,111.9	\$1,042.2	\$957.3	\$1,029.4	\$1,077.1
EBITDAR Margin	22.00%	23.43%	24.48%	26.18%	25.02%	27.32%	27.35%	25.29%	26.17%	27.33%
EBITDAR Growth	6.51%	14.90%	7.49%	10.91%	2.56%	11.11%	-6.27%	9.40%	8.19%	2.42%
Net Operating Profit Before Tax (NOPBT)	\$604.4	\$708.3	\$767.8	\$858.9	\$872.3	\$984.8	\$921.9	\$838.4	\$905.3	\$953.4
NOPBT Margin	18.67%	20.28%	21.37%	23.05%	21.81%	24.19%	24.19%	22.14%	23.02%	24.19%
NOPBT Growth	7.48%	17.20%	8.40%	11.86%	1.56%	12.90%	-6.39%	10.38%	8.77%	3.26%
Cash Operating Income Tax	\$191.5	\$224.0	\$239.1	\$261.8	\$266.3	\$232.1	\$181.2	\$244.6	\$253.4	\$206.6
Economic Tax Effective Rate	31.68%	31.62%	31.13%	30.48%	30.53%	23.56%	19.65%	29.47%	28.19%	21.61%
Net Operating Profit After Tax (NOPAT)	\$412.9	\$484.4	\$528.8	\$597.1	\$606.0	\$752.8	\$740.8	\$593.8	\$652.0	\$746.8
NOPAT Margin	12.75%	13.87%	14.72%	16.02%	15.15%	18.49%	19.44%	15.65%	16.55%	18.97%
NOPAT Growth	8.31%	17.30%	9.18%	12.91%	1.50%	24.22%	-1.59%	13.02%	12.88%	11.31%
Cash & Equivalents	\$217.6	\$132.9	\$92.8	\$77.6	\$92.0	\$140.9	\$136.5	\$107.2	\$103.5	\$138.7
Total Assets	\$4,110.0	\$4,310.1	\$4,486.9	\$4,723.2	\$5,249.1	\$5,373.1	\$5,204.9	\$4,828.5	\$5,115.1	\$5,289.0
Non - Interest Bearing Liabilities (NIBLs)	\$864.0	\$944.9	\$971.1	\$916.5	\$945.8	\$983.6	\$952.8	\$952.4	\$948.6	\$968.2
Net Assets	\$3,228.8	\$3,347.7	\$3,497.8	\$3,788.7	\$4,284.9	\$4,369.7	\$4,232.9	\$3,857.8	\$4,147.8	\$4,301.3
Economic Asset Adjustments	\$335.0	\$375.8	\$376.8	\$396.8	\$404.2	\$486.5	\$471.2	\$408.0	\$429.2	\$478.8
Net Operating Assets	\$3,563.8	\$3,723.5	\$3,874.6	\$4,185.5	\$4,689.1	\$4,856.2	\$4,704.2	\$4,265.8	\$4,576.9	\$4,780.2
Debt & Debt Equivalents	\$1,042.9	\$1,015.9	\$978.2	\$1,103.7	\$1,281.3	\$1,219.6	\$1,181.4	\$1,119.7	\$1,201.5	\$1,200.5
Equity & Equivalents	\$2,113.2	\$2,207.8	\$2,412.7	\$1,103.7	\$2,953.9	\$3,098.8	\$3,001.8	\$2,658.1	\$2,890.0	\$3,050.3
Total Capital - Financing Sources	\$3,156.1	\$3,223.7	\$3,390.9	\$3,720.9	\$4,235.2	\$4,318.4	\$4,183.2	\$3,777.8	\$4,091.5	\$4,250.8
Capital Adjustments	\$264.1	\$3,225.7	\$3,390.9	\$3,720.9	\$326.6	\$4,310.4	\$401.3	\$3,777.8	\$354.3	\$407.8
Net Capital Financing Sources	\$3,420.2	\$3,528.7	\$3,691.8	\$4,042.9	\$4,561.8	\$4,732.7	\$4,584.5	\$4,111.6	\$4,445.8	\$4,658.6
<b>3</b>	11,	, , ,	, , ,	. /	, , , , , ,	, , -	. , ,		. ,	, ,
Net Working Capital	\$1,378.7	\$1,538.2	\$1,622.2	\$1,551.5	\$1,701.4	\$1,793.6	\$1,737.5	\$1,641.4	\$1,682.2	\$1,765.5
Cost of Net Working Capital	\$90.6	\$91.8	\$70.1	\$106.1	\$112.7	\$113.8	\$110.2	\$98.9	\$110.9	\$112.0
% of Revenue	2.80%	2.63%	1.95%	2.85%	2.82%	2.80%	2.89%	2.61%	2.82%	2.84%
Operational Capital	\$1,842.1	\$2,013.5	\$2,111.6	\$2,051.5	\$2,263.4	\$2,360.9	\$2,287.0	\$2,160.2	\$2,225.2	\$2,323.9
Cost of Operational Capital	\$121.9	\$121.4	\$91.5	\$139.2	\$149.6	\$150.6	\$145.9	\$130.5	\$146.5	\$148.2
% of Revenue	3.77%	3.48%	2.55%	3.74%	3.74%	3.70%	3.83%	3.44%	3.72%	3.76%
Productive Capital	\$2,871.4	\$3,027.5	\$3,096.7	\$3,131.6	\$3,441.2	\$3,496.0	\$3,386.5	\$3,238.6	\$3,356.2	\$3,441.3
Cost of Productive Capital	\$191.2	\$185.7	\$135.8	\$208.3	\$227.8	\$225.9	\$218.8	\$196.7	\$220.7	\$222.4
% of Revenue	5.90%	5.32%	3.78%	5.59%	5.70%	5.55%	5.74%	5.19%	5.61%	5.65%
Total Operating Capital	\$3,508.1	\$3,765.2	\$3,961.5	\$4,294.3	\$4,797.1	\$4,918.8	\$4,764.8	\$4,347.4	\$4,670.0	\$4,841.8
Cost of Total Operating Capital	\$231.6	\$229.0	\$171.4	\$276.1	\$315.1	\$316.4	\$306.5	\$261.6	\$302.5	\$311.4
% of Revenue	7.15%	6.56%	4.77%	7.41%	7.88%	7.77%	8.04%	6.88%	7.69%	7.91%
Non - Operating Capital	\$55.7	(\$41.7)	(\$86.9)	(\$108.8)	(\$108.0)	(\$62.6)	(\$60.7)	(\$81.6)	(\$93.1)	(\$61.6)
Cost of Non - Operating Capital	\$3.9	\$0.4	(\$2.9)	(\$6.5)	(\$7.5)	(\$5.6)	(\$5.4)	(\$4.4)	(\$6.5)	(\$5.5)
% of Revenue	0.12%	0.01%	-0.08%	-0.18%	-0.19%	-0.14%	-0.14%	-0.11%	-0.17%	-0.14%
Total Capital	\$3,563.8	\$3,723.5	\$3,874.6	\$4,185.5	\$4,689.1	\$4,856.2	\$4,704.2	\$4,265.8	\$4,576.9	\$4,780.2
Cost of Total Capital % of Revenue	\$235.5 7.28%	\$229.4 6.57%	\$168.5 4.69%	\$269.6 7.23%	\$307.6 7.69%	\$310.8 7.64%	\$301.1 7.90%	\$257.2 6.76%	\$296.0 7.52%	\$306.0 7.77%
Cost of Capital (WACC)	6.84%	6.30%	4.44%	6.69%	6.93%	6.51%	6.51%	6.17%	6.71%	6.51%
cost of Capital (WACC)	0.04 /6	0.30 /6	4.44 /0	0.0376	0.93 /6	0.51/6	0.5176	0.17 /6	0.7176	0.51/0
Capital Structure										
Debt & Debt Equivalents	\$1,042.9	\$1,015.9	\$978.2	\$1,103.7	\$1,281.3	\$1,219.6	\$1,181.4	\$1,119.7	\$1,201.5	\$1,200.5
Debt & Debt Equivalents % of Market Value	14.21%	11.37%	8.95%	10.00%	11.42%	13.10%	13.10%	10.89%	11.42%	13.10%
Preferred Equity	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Preferred Equity % of Market Value	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Market Value of Common Equity	\$6,295.9	\$7,919.5	\$9,950.8	\$9,937.9	\$9,936.3	\$8,090.0	\$7,836.8	\$9,166.9	\$9,321.4	\$7,963.4
Common Equity % of Market Value	85.79%	88.63%	91.05%	90.00%	88.58%	86.90%	86.90%	89.11%	88.58%	86.90%
Total Economic Market Value (MV)	\$7,338.8	\$8,935.4	\$10,929.1	\$11,041.7	\$11,217.6	\$9,309.6	\$9,018.2	\$10,286.7	\$10,523.0	\$9,163.9
Total %	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Excess Cash	\$55.7	(\$41.7)	(\$86.9)	(\$108.8)	(\$108.0)	(\$62.6)	(\$60.7)	(\$81.6)	(\$93.1)	(\$61.6)
Economic Enterprise Value	\$7,283.1	\$8,977.1	\$11,015.9	\$11,150.4	\$11,325.6	\$9,372.2	\$9,078.9	\$10,368.3	\$10,616.1	\$9,225.5
Average Comited	#2 000 C	60 474 4	#2 C40 C	¢2 527 4	64 200 0	64.647.6	64.050.0	#2 CCC C	64.070.0	64.050.0
Average Capital	\$3,300.9	\$3,474.4	\$3,610.2	\$3,867.4	\$4,302.3	\$4,647.2	\$4,658.6	\$3,980.3	\$4,272.3	\$4,652.9
Capital ∆	\$238.6	\$108.5	\$163.2	\$351.1	\$518.8	\$170.9	(\$148.1)	\$262.5	\$346.9	\$11.4

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#### **Snap-on Incorporated (SNA-US)**

**Machinery** 

#### **Financial Analysis**

Resum on Market Value (NOPAT / MV)   6.89%   6.40%   6.40%   6.40%   6.40%   6.40%   6.40%   6.40%   6.20%   7.28%   6.50%   6.20%	Report Basis	LTM	LTM	LTM	LTM	LTM	LTM	NTM	5 Yr	3 Yr	Current
Return on Enterprise Value (NOPAT ( EV) 6.67% 6.40% 6.40% 6.30% 7.78% 6.20% 6.20% 7.78% 6.20% 6.20% 7.78% 6.20% 6.20% 6.30% 7.78% 6.20% 6.20% 6.30% 6.	Reported Period Ending	12/28/2013	01/03/2015	01/02/2016	12/31/2016	12/30/2017	12/31/2018	12/31/2019	Average	Average	Trend 7.96%
Return on Capital NCAPAT / Average Capital   12.51%, 13.84%, 14.65%, 15.44%, 14.60%, 16.20%, 15.00%, 1											7.91%
Second   S		12.51%	13.94%	14.65%	15.44%	14.09%	16.20%	15.90%	14.86%	15.24%	16.05%
Capital Charge   September											6.51%
Secondary Profit (EP)   \$187.0   \$285.6   \$386.6   \$332.4   \$327.8   \$40.1   \$346.1   \$346.1   \$346.4   \$326.6   \$366.6   \$336.6   \$337.8   \$40.1   \$346.1   \$346.4   \$346.6											9.53%
Second profit Improvement (EP)											\$297.9
EPF Growth Margin on Sales (EPF Sales)  6.0794 7.4207 18.236 19.0094 19.2095 1											\$443.1 \$64.1
Economic Frofit Meight on States 6 .7 7% 7 .00% 1 .0 .20% 2 .0 .00% 7 .0 .00% 7 .0 .00% 7 .1 .0 .00% 1 .1 .4 .4 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0											21.56%
GAAP Earnings Per Share  30.06  (10.72)  (10.72)  (10.73)	Economic Profit Margin on Sales										11.25%
Performance Drivers  Sales Growth Trend (ROC) Sales Growth)							\$8.00	\$7.74	\$6.00		\$7.87
Performance Drivers				\$8.24		\$9.71	\$12.08	\$12.28			\$12.18
Saltes Growth	Excess Cash Per Share	\$0.96	(\$0.72)	(\$1.49)	(\$1.88)	(\$1.91)	(\$1.12)	(\$1.09)	(\$1.42)	(\$1.63)	(\$1.10)
Sales Growth Tend (ROC Sales Growth)  4 6.59% 6 5.19% 6 2.59% 2.39% 5 5.89% 3 3.89% 3 3.89% 3 3.99% 4 4.29% 12.10TAA Margin  5 20 00% 2.4 4.5% 2.4 4.6% 2.6 10% 2.5 0.2% 2.7 3.20% 2.3 2.5% 2.5 2.0% 2.5 2.0% 2.5 2.0% 2.5 2.0% 2.5 2.0% 2.5 2.0% 2.5 2.0% 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	Performance Drivers										
Sales Growth Tend (ROC Sales Growth)  4 65% 6.51% 4.88% 3.39% 5.58% 3.39% 3.39% 3.58% 4.25% 4.42% 4.42% 4.58 4.50 4.50 4.50 4.50 4.50 4.50 4.50 4.50	Salas Growth	4 46%	7 99%	2 99%	2 720/	7 33%	1 75%	6 30%	A 710/	4 27%	-2.32%
EBITIDAK Margin  EBITIDAK Growth  EBITID											0.43%
EBITDAR Growth  18 67th  20 29th  21 481th  22 1481th  24 149th  24 149th  24 149th  24 149th  24 149th  24 149th  25 149th  26 149th  26 149th  26 149th  26 149th  27 149th  28 149th  28 149th  28 149th  29 149th  29 149th  29 149th  20 149th  29 149th  20											27.33%
NOPET Growth											2.42%
NOPAT Margin (NoPAT Card) NOPAT Margin (NoPAT Card) NOPAT Growth Margin on Sales (EP / Sales) S78% 77.00% 10.88% 12.91% 1.50% 12.98% 1.00% 11.44% 15.65% 16.55% NOPAT Growth Margin on Sales (EP / Sales) S78% 77.60% 10.20% 19.08% 1.00% 10.20% 1.00% 1.00% 11.44% 19.00% 12.20% 1.00% 10.20% 10.00% 10.20% 1.00% 10.20% 1.00% 10.20% 1.00% 1.00% 1.00% 10.20% 1.00% 1.											24.19%
NOPAT Growth Conomic Profit Margin on Sales (EP / Sales) 5.78% 7.09% 10.29% 9.18% 12.91% 1.50% 9.4 2.29% 11.09% 13.02% 12.88% Conomic Profit Margin of CoC-WACC) 8.80% 4.200% 38.80% 8.21% 50.90% 7.66% 46.22% 3.31% 21.96% 9.07% Conomic Profit Margin (NOC-WACC) 8.80% 4.200% 38.80% 8.21% 50.90% 20.319% 20.319% 248.72% 24.10% 246.80% 227.57% 2.00% 20.319% 20.31	NOPBT Growth										3.26%
Economic Profit Margin on Sales (EP / Sales) 5.78% 7.60% 10.26% 9.08% 7.60% 11.06% 11.04% 9.14% 9.14% 9.28% [Economic Refit (Graw)** (FOCAMACO)											18.97%
Economic Front (Growth Spread (ROC-VVACC) 5 67% 7 64% 10 21% 8 79% 7 10% 9 69% 9 69% 9 69% 227 67% 2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6											11.31%
Economic Return Spread (ROC-WACC) 5.67% 7.64% 10.21% 8.75% 7.15% 9.69% 9.99% 8.693% 8.53% Economic Return Ratio (ROC WACC) 182.80% 22.139% 30.016% 20.308% 20.10% 248.72% 248.72% 248.72% 248.72% 248.72% 248.72% 248.72% 248.72% 248.72% 2.23% 2.79% 0.75%											11.25%
Economic Return Katlor (ROC / WACC) 182 80% 221.39% 330.16% 230.80% 203.19% 248.72% 244.16% 246.85% 227.57% 2.00% 0.07%											21.56%
Economic Profit Momentum (AEP/Capital)											9.54% 246.44%
Economic Profit Momentum Margin (AEP/Sales)											1.35%
Capital Growth 7, 50% 3, 17% 4, 62% 9,51% 12,83% 3,75% 4,313% 6,78% 8,70% Capital Turns 9,095% 0,993% 0,97% 0,92% 0,98% 0,97% 3,37% 4,095% 1,78% 0,72% EVC Acceleration Supread -0,55% 2,43% 2,95% -0,84% -0,62% 3,56% -0,35% 1,35% 0,72% 0,66% EVC Acceleration Supread -0,55% 2,43% 2,95% -0,84% -0,62% 3,56% -0,35% 1,35% 0,50% 1,73% 0,66% EVC Acceleration Supread -0,55% 2,43% 2,95% -0,84% -0,62% 3,56% -0,35% 1,35% 0,50% 1,75% 0,66% EVC Acceleration Supread -0,55% 2,43% 2,95% -0,84% -0,62% 3,35% -0,399% 1,73% 0,66% EVC Acceleration Supread -0,55% 2,43% 2,95% -0,84% -0,62% 3,56% -0,79% 3,37% -0,399% 1,75% 0,66% EVC Acceleration Supread -0,55% 2,43% 2,95% -0,84% -0,60% 1,91% 1,22% 19,39% 8,17% 6,75% 1,											1.56%
Capital Turns											0.31%
EVC Acceleration Margine											0.85X
Risk Factors  Fines Cash Flow (NOPAT - A Caystal)  \$174.3  \$376.0  \$395.6  \$39	EVC Acceleration Margin	-0.53%	2.43%	2.95%	-0.84%	-0.82%	3.56%	-0.35%	1.38%	0.72%	1.63%
Free Cash Flow (NOPAT - \( \) Capital ) \$174.3 \$375.9 \$365.6 \$246.0 \$87.2 \$581.9 \$888.9 \$331.3 \$305.0 Free Cash Flow Rate (FCF / Capital) \$1.065% 9.90% 6.08% 1.91% 12.29% 19.39% 8.17% 6.76% Free Cash Flow Water (FCF / Capital) \$3.06 \$1.065% 9.90% 6.08% 1.91% 12.29% 19.39% 8.17% 6.76% Free Cash Flow Water (FCF / Capital) 30.49% 28.79% 26.50% 27.30% 28.09% 25.77% 27.79% 27.79% 27.09% 7.704 20.00 \$1.00		-0.54%	2.38%	2.97%	-0.84%	-0.79%	3.31%	-0.30%	1.13%	0.68%	1.50%
Free Cash Flow Rate (FCF / Capital) 5 .10% 10 .65% 9 .90% 6 .08% 1 .91% 12 .29% 19 .39% 8 .17% 6 .76% Free Cash Flow Yield (FCF / MV) 2 .37% 4 .21% 3 .35% 2 .23% 0 .78% 6 .25% 9 .86% 3 .36% 3 .30% 6 .76% Total Debt / Total Capital 30 .49% 28 .79% 26 .650% 27 .30% 28 .09% 25 .77% 27 .27% 27 .05% Total Debt / Stell Flow Flow Flow Flow Flow Flow Flow Fl											
Free Cash Flow Yield (FCF / MV) 7											\$735.4
Total Debt / Total Capital 30.49% 28.79% 26.50% 27.30% 28.09% 25.77% 25.77% 27.29% 27.09% 7 ctal Debt / EBITDAR 146.41% 12.12% 111.20% 113.12% 128.03% 109.68% 113.36% 117.23% 116.99% 1 Excess Cash \$55.7 (\$41.7) (\$86.9) (\$108.8) (\$108.0) (\$62.6) (\$0.0) (\$81.6) (\$93.1) (\$											15.84% 8.05%
Total Debt / EBITDAR  146, 41% 124, 12% 111, 20% 113, 12% 128, 03% 109, 68% 113, 36% 117, 23% 116, 95% 1 Excess Cash   55.7 (\$4.1.7) (\$56.9) (\$10.8) (\$10.0) (\$6.2) (\$0.0) (\$0.1 (\$0.1)											25.77%
Excess Cash   \$55.7   \$41.7   \$86.9   \$(510.8)   \$(510.											111.52%
Pension Leverage (Net Pension Liability / MV)	Excess Cash			(\$86.9)							(\$31.3)
Equity Risk Index (S&P 500 = 1.00)	Financial Leverage ((Total Debt - Excess Cash) /	13.45%	11.84%	9.75%	10.98%	12.38%	13.77%	13.10%	11.74%	12.38%	13.44%
Stock Price Volatility											-1.59%
Sales Index (NL Sales)  8.08 8.16 8.19 8.22 8.29 8.31 8.25 8.23 8.28 8.28 Market Value Index (NL Market Value)  8.90 9.10 9.30 9.31 9.33 9.14 9.11 9.23 9.26 Size Index (NL Sales: MV)  8.49 8.63 8.74 8.77 8.81 8.73 8.68 8.73 8.77 8.81 1.05 1.05 1.05 1.05 1.06 1.01 1.03 1.03 1.05 1.05 1.05 1.05 1.06 1.01 1.03 1.03 1.05 1.05 1.05 1.05 1.06 1.01 1.03 1.03 1.05 1.05 1.05 1.06 1.01 1.03 1.03 1.05 1.05 1.05 1.06 1.01 1.03 1.02 1.02 1.04 1.02 1.02 1.04 1.02 1.02 1.04 1.02 1.02 1.04 1.02 1.02 1.04 1.02 1.02 1.04 1.02 1.02 1.04 1.02 1.02 1.04 1.02 1.02 1.04 1.02 1.02 1.04 1.02 1.02 1.04 1.02 1.02 1.04 1.02 1.02 1.04 1.02 1.02 1.04 1.02 1.04 1.02 1.02 1.04 1.02 1.02 1.04 1.02 1.02 1.04 1.02 1.02 1.04 1.02 1.02 1.04 1.02 1.02 1.04 1.02 1.02 1.04 1.02 1.02 1.04 1.02 1.04 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02											1.02
Market Value Index (NL Market Value)											3.23
Size Index (NL Sales: MV)											8.28
Beta   1.08   1.08   1.08   1.08   1.06   1.01   1.03   1.03   1.05   1.03   1.05   1.02											9.12 8.70
TFP Adjusted Beta 1.05 1.05 1.05 1.06 2.76 2.88 2.73 3.23 3.23 1.02 1.04 1.02 Stock Price Volatility 2.70 2.40 2.76 2.88 2.73 3.23 3.23 2.80 2.95   Valuation Measures  Valuation Measures  Total Economic Market Value (MV) \$7,388.8 \$8,935.4 \$10,929.1 \$11,041.7 \$11,217.6 \$9,309.6 \$9,018.2 \$10,286.7 \$10,523.0 \$8 Economic Enterprise Value \$7,283.1 \$8,977.1 \$11,015.9 \$11,150.4 \$11,325.6 \$9,372.2 \$9,078.9 \$10,368.3 \$10,618.1 \$8 Equity Market Value \$6,295.9 \$7,919.5 \$9,950.8 \$9,937.9 \$9,936.3 \$8,090.0 \$7,836.8 \$9,166.9 \$9,321.4 \$7 Total Capital \$3,563.8 \$3,723.5 \$3,874.6 \$4,185.5 \$4,689.1 \$4,856.2 \$4,704.2 \$4,266.8 \$4,576.9 \$9 Market Value Created MVC (MV - Capital) \$3,775.0 \$5,211.9 \$7,054.4 \$6,856.1 \$6,528.5 \$4,453.4 \$4,314.0 \$6,020.9 \$5,946.0 \$4 MVC Margin (MVC / Sales) \$116.60% \$149.23% \$196.33% \$189.60% \$163.20% \$109.41% \$113.21% \$159.42% \$11.20% \$1 MVC Spread (MVC / Capital) \$105.93% \$139.98% \$12.07% \$163.81% \$139.23% \$91.71% \$11,414% \$129.91% \$10.000 \$1.0000 \$1.000 \$1.0000 \$1.000 \$1.0000 \$1.0000 \$1.0000											1.03
Valuation Measures  Total Economic Market Value (MV) \$7,338.8 \$8,935.4 \$10,929.1 \$11,041.7 \$11,217.6 \$9,309.6 \$9,018.2 \$10,286.7 \$10,523.0 \$8,000.0 \$7,283.1 \$8,977.1 \$11,015.9 \$11,160.4 \$11,325.6 \$9,372.2 \$9,078.9 \$10,388.3 \$10,616.1 \$8,000.0 \$7,283.1 \$8,977.1 \$11,015.9 \$11,160.4 \$11,325.6 \$9,372.2 \$9,078.9 \$10,388.3 \$10,616.1 \$8,000.0 \$7,836.8 \$9,018.2 \$10,286.7 \$10,523.0 \$10,286.7											1.02
Total Economic Market Value (MV) \$7,338.8 \$8,935.4 \$10,929.1 \$11,041.7 \$11,217.6 \$9,309.6 \$9,018.2 \$10,286.7 \$10,523.0 \$2 \$10,000 \$7,836.8 \$9,72.2 \$9,078.9 \$10,388.3 \$10,616.1 \$8 \$1,000 \$10,											3.23
Economic Enterprise Value \$7,283,1 \$8,977.1 \$11,015.9 \$11,150.4 \$11,325.6 \$9,372.2 \$9,078.9 \$10,368.3 \$10,616.1 \$\$\$ Equity Market Value \$6,295.9 \$7,919.5 \$9,950.8 \$9,937.9 \$9,936.3 \$8,090.0 \$7,836.8 \$9,166.9 \$9,321.4 \$7,700.0 \$1,000.0 \$1	Valuation Measures										
Economic Enterprise Value \$7,283, 1 \$8,977.1 \$11,015.9 \$11,150.4 \$11,325.6 \$9,372.2 \$9,078.9 \$10,368.3 \$10,616.1 \$\$\$ Equity Market Value \$6,295.9 \$7,919.5 \$9,950.8 \$9,937.9 \$9,936.3 \$8,090.0 \$7,836.8 \$9,166.9 \$9,321.4 \$7,700.1 \$10,000.0	Total Economic Market Value (MV)	\$7.338.8	\$8.935.4	\$10.929.1	\$11.041.7	\$11.217.6	\$9.309.6	\$9.018.2	\$10.286.7	\$10.523.0	\$9,163.9
Equity Market Value \$6,295.9 \$7,915. \$9,950.8 \$9,937.9 \$9,936.3 \$8,090.0 \$7,836.8 \$9,166.9 \$9,321.4 \$7.70tal Capital \$3,563.8 \$3,723.5 \$3,874.6 \$4,185.5 \$4,689.1 \$4,856.2 \$4,704.2 \$4,265.8 \$4,576.9 \$4.70tal Capital \$3,775.0 \$5,211.9 \$7,054.4 \$6,856.1 \$6,528.5 \$4,453.4 \$4,314.0 \$6,020.9 \$5,946.0 \$4,000.0 \$7,0											\$9,225.5
Total Capital \$3,563.8 \$3,723.5 \$3,874.6 \$4,185.5 \$4,889.1 \$4,856.2 \$4,704.2 \$4,265.8 \$4,576.9 \$4,487.4 \$4,185.5 \$4,889.1 \$4,856.2 \$4,704.2 \$4,265.8 \$4,576.9 \$4,487.4 \$4,185.5 \$4,487.4 \$4,185.											\$7,963.4
Market Value Created MVC (MV - Capital) \$3,775.0 \$5,211.9 \$7,054.4 \$6,856.1 \$6,528.5 \$4,453.4 \$4,314.0 \$6,020.9 \$5,946.0 \$9,000 \$16,450.0 \$160.0 \$1,000 \$1,0											\$4,780.2
MVC Margin (MVC / Sales) 116.60% 149.23% 196.33% 183.96% 163.20% 109.41% 113.21% 159.42% 151.20% 1 MVC Spread (MVC / Capital) 105.93% 139.98% 182.07% 163.81% 139.23% 91.71% 91.71% 141.14% 129.91% Current EVC Value (EP / WACC) \$2,733.1 \$4,217.7 \$8,309.3 \$5,058.7 \$4,439.8 \$6,911.5 \$6,695.1 \$5,606.3 \$5,444.9 \$6 Current Operations Value COV \$6,034.0 \$7,692.1 \$11,919.6 \$8,926.1 \$8,742.1 \$11,558.7 \$11,353.7 \$9,586.6 \$9,717.2 \$17 Current Operations Value Per Share \$103.68 \$132.39 \$205.16 \$153.63 \$149.18 \$205.31 \$196.30 \$165.74 \$168.51 \$7 Current Operations Value Per Share \$103.68 \$132.39 \$205.16 \$153.63 \$149.18 \$205.31 \$196.30 \$165.74 \$168.51 \$7 Current Operations Value Per Share \$103.68 \$132.39 \$205.16 \$153.63 \$149.18 \$205.31 \$196.30 \$165.74 \$168.51 \$7 Current Operations Value (MVC - EVA Value) \$1,304.8 \$1,243.3 \$(\$99.5) \$2,115.6 \$2,475.4 \$(\$2,249.1) \$(\$2,335.5) \$700.1 \$805.7 \$(\$2,335.5) \$10.1 \$10.20 \$10.								\$4,314.0			\$4,383.7
Current EVC Value (EP / WACC) \$2,733.1 \$4,217.7 \$8,309.3 \$5,058.7 \$4,439.8 \$6,911.5 \$6,695.1 \$5,606.3 \$5,444.9 \$6 Current Operations Value COV \$6,034.0 \$7,692.1 \$11,916.6 \$8,926.1 \$15,505.7 \$11,353.7 \$11,353.7 \$9,586.6 \$9,717.2 \$17 Current Operations Value Per Share \$103.68 \$132.39 \$2,05.16 \$153.63 \$149.18 \$205.31 \$196.3 \$165.74 \$168.51 \$9,103.68 \$132.39 \$103.68 \$132.39 \$196.50 \$153.63 \$149.18 \$205.31 \$196.3 \$165.74 \$168.51 \$9,103.68 \$132.39 \$103.68 \$132.39 \$196.50 \$103.68 \$2,475.4 \$12,249.1 \$1,205.6 \$103.68 \$103.68 \$132.39 \$103.68 \$103.68 \$103.68 \$1,243.3 \$103.91 \$10.00 \$1,00		116.60%	149.23%	196.33%	183.96%	163.20%	109.41%	113.21%	159.42%	151.20%	111.25%
Current Operations Value COV \$6,034.0 \$7,692.1 \$11,919.6 \$8,926.1 \$8,742.1 \$11,558.7 \$11,353.7 \$9,586.6 \$9,717.2 \$17.0 \$17.0 \$13.68 \$132.39 \$205.16 \$153.63 \$149.18 \$205.31 \$196.30 \$165.74 \$168.51 \$17.0 \$13.68 \$132.39 \$205.16 \$153.63 \$149.18 \$205.31 \$196.30 \$165.74 \$168.51 \$17.0 \$13.68 \$132.39 \$205.16 \$153.63 \$149.18 \$205.31 \$196.30 \$165.74 \$168.51 \$17.0 \$13.69 \$13.69 \$13.69 \$13.69 \$13.69 \$13.69 \$13.69 \$13.69 \$13.69 \$13.69 \$13.69 \$13.69 \$13.69 \$13.69 \$19.16 \$22.07 \$24.16 \$22.94 \$13.69 \$13.69 \$13.69 \$171.43 \$171.27 \$149.01 \$145.29 \$145.29 \$154.66 \$155.19 \$10.0 \$15.0 \$10.0 \$15.0 \$10.0 \$15.0 \$10.0 \$15.0 \$10.0 \$15.0 \$10.0 \$15.0 \$10.0 \$15.0 \$10.0 \$15.0 \$10.0 \$15.0 \$10.0 \$15.0 \$10.0 \$15.0 \$10.0 \$10.0 \$15.0 \$10.0											91.71%
Current Operations Value Per Share \$103.68 \$132.39 \$205.16 \$153.63 \$149.18 \$205.31 \$196.30 \$165.74 \$188.51 \$ Future Growth Value (MVC - EVA Value) \$1,304.8 \$1,243.3 (\$990.5) \$2,115.6 \$2,475.4 (\$2,249.1) (\$2,335.5) \$700.1 \$805.7 (\$2,500.7) \$ Future Growth Value Reliance (FGV / MV) 17.78% 13.91% -9.06% 19.16% 22.07% -24.16% -25.90% 6.81% 7.66% -20.60% 7.00% 7.93% 124.16% -25.90% 9.31% 9.23.4% 1.90% 92.34% 1.90%											\$6,803.3
Future Growth Value (MVC - EVA Value) \$1,304.8 \$1,243.3 (\$990.5) \$2,115.6 \$2,475.4 (\$2,249.1) (\$2,335.5) \$700.1 \$805.7 (\$2,249.1) \$1,304.8 \$1,243.3 (\$990.5) \$2,115.6 \$2,475.4 (\$2,249.1) \$2,335.5) \$700.1 \$805.7 (\$2,249.1) \$1,304.8 \$1,304.											\$11,456.2
Future Growth Value Reliance (FGV / MV) 17,78% 13,91% 9,06% 19,16% 22,07% -24,16% -25,90% 6,81% 7,66% - \$99.72 \$136.29 \$171.43 \$171.27 \$149.01 \$145.29 \$145.29 \$145.29 \$154.66 \$155.19 \$ Dividend Yield 1,58% 1,28% 1,48% 1,98% 2,35% Total Shareholder Return (TTM) 40,33% 38,03% 27,07% 1,39% -11,02% 0,15% 0,00% 6,45% 0,34% MV to IC Ratio 2,06X 2,40X 2,82X 2,64X 2,39X 1,92X 1,92X 2,41X 2,30X EV / EBITDAR Multiple 10,22X 10,97X 12,52X 11,43X 11,32X 8,43X 8,71X 10,83X 10,31X EV / NOPBIT Multiple 12,05X 12,67X 14,35X 12,98X 12,98X 9,52X 9,85X 12,37X 11,73X EV / NOPBIT Multiple 17,64X 18,553 20,83X 18,68X 18,69X 12,45X 12,26X 17,46X 16,28X EV / EP Multiple 38,94X 33,80X 29,88X 32,95X 36,80X 20,82X 20,82X 29,96X 29,05X Future Growth Value (% of MV) 17,78% 13,91% -9,06% 19,16% 22,07% -24,16% 25,90% 9,319% 92,34% 1 Current Operations Value (% of MV) 82,22% 86,09% 109,06% 80,84% 77,93% 124,16% 125,90% 93,19% 92,34% 1											\$200.74
Share Price   \$99.72 \$136.29 \$171.43 \$171.27 \$149.01 \$145.29 \$145.29 \$154.66 \$155.19 \$											(\$2,292.3) -25.01%
Dividend Yield   1.58%   1.36%   1.28%   1.48%   1.98%   2.35%											-25.01% \$145.29
Total Shareholder Return (TTM)								ψ. 40.23	ψ.54.00	ψ.30.13	ψ. <del>4</del> 0.29
MV to IC Ratio 2.06X 2.40X 2.82X 2.64X 2.39X 1.92X 1.92X 2.41X 2.30X EV / EBITDAR Multiple 10.22X 10.97X 12.52X 11.43X 11.32X 8.43X 8.71X 10.83X 10.31X EV / NOPBIT Multiple 12.05X 12.67X 14.35X 12.98X 12.98X 9.52X 9.85X 12.37X 11.73X EV / NOPAT Multiple 17.64X 18.53X 20.83X 18.68X 18.69X 12.45X 12.26X 17.46X 16.28X EV / EP Multiple 38.94X 33.80X 29.88X 32.95X 36.80X 20.82X 20.82X 29.96X 29.05X Future Growth Value (% of MV) 17.78% 13.91% -9.06% 19.16% 22.07% -24.16% -25.90% 6.81% 7.66% -Current Operations Value (% of MV) 82.22% 86.09% 109.06% 80.84% 77.93% 124.16% 125.90% 93.19% 92.34% 1.								0.00%	6.45%	0.34%	-6.38%
EV / BBTDAR Multiple 10.22X 10.97X 12.52X 11.43X 11.32X 8.43X 8.71X 10.83X 10.31X   EV / NOPBIT Multiple 12.05X 12.67X 14.35X 12.98X 12.98X 9.52X 9.85X 12.37X 11.73X   EV / NOPAT Multiple 17.64X 18.53X 20.83X 18.68X 18.69X 12.45X 12.26X 17.46X 16.28X   EV / EP Multiple 38.94X 33.80X 29.88X 32.95X 36.80X 20.82X 20.82X 29.96X 29.05X   Future Growth Value (% of MV) 17.78% 13.91% -9.06% 19.16% 22.07% -24.16% -25.90% 6.81% 7.66% - Current Operations Value (% of MV) 82.22% 86.09% 109.06% 80.84% 77.93% 124.16% 125.90% 93.19% 92.34% 1.											1.92X
EV / NOPBIT Multiple 12.05X 12.67X 14.35X 12.98X 12.98X 9.52X 9.85X 12.37X 11.73X   EV / NOPAT Multiple 17.64X 18.53X 20.83X 18.68X 18.69X 12.45X 12.26X 17.46X 16.28X   EV / EP Multiple 38.94X 33.80X 29.85X 32.95X 36.80X 20.82X 20.82X 29.96X 29.05X   Future Growth Value (% of MV) 17.78% 13.91% -9.06% 19.16% 22.07% -24.16% -25.90% 6.81% 7.66% - Current Operations Value (% of MV) 82.22% 86.09% 109.06% 80.84% 77.93% 124.16% 125.90% 93.19% 92.34% 1.											8.57×
EV / EP Multiple 38.94X 33.80X 29.88X 32.95X 36.80X 20.82X 20.82X 29.96X 29.05X Future Growth Value (% of MV) 17.78% 13.91% -9.06% 19.16% 22.07% -24.16% -25.90% 6.81% 7.66% - Current Operations Value (% of MV) 82.22% 86.09% 109.06% 80.84% 77.93% 124.16% 125.90% 93.19% 92.34% 1.											9.68×
Future Growth Value (% of MV) 17.78% 13.91% -9.06% 19.16% 22.07% -24.16% -25.90% 6.81% 7.66% - Current Operations Value (% of MV) 82.22% 86.09% 109.06% 80.84% 77.93% 124.16% 125.90% 93.19% 92.34% 1											12.35
Current Operations Value (% of MV) 82.22% 86.09% 109.06% 80.84% 77.93% 124.16% 125.90% 93.19% 92.34% 1.											20.82X
											-25.01%
Marker value (COV ₹ FGV 70) 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 1 100.00% 1 100.00% 1 100.00% 1 100.00% 1											125.01%
Basic Shares Outstanding 58.2 58.1 58.1 58.6 56.3 57.8 57.8 57.7											100.00% 57.1

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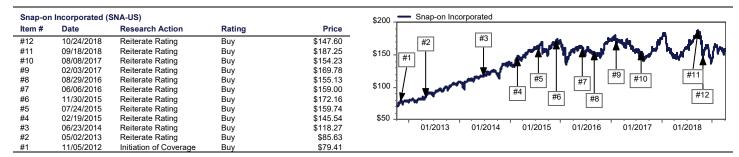


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#### Snap-on Incorporated (SNA-US)

**Machinery** 

#### **Ratings History**



#### **Tigress Research Methodology Overview**

We employ proprietary quantitative valuation models combined with dynamic fundamental analysis based on the principles of Economic Profit to formulate timely and insightful investment ratings, analysis, strategies, and recommendations.

We make key adjustments to reported financial data eliminating GAAP-based accounting distortions and measuring all companies on a cash operating basis.

Our proprietary research framework is a multi-factor model that scores and ranks companies based on their risk-adjusted ability to create Economic Profit relative to their current market value focusing on three key components:

Business Performance: Measuring economic profitability, growth and operating efficiency.

Risk: Measuring business sustainability, volatility, strength, and consistency.

**Valuation:** Linking business performance to market value. Measuring value created relative to capital employed and enterprise multiples of economic profit and cash flow.

We score and rank 24 key measurements of performance, risk, and value into relative market and industry investment recommendations.

#### **Glossary of Key Terms and Measures**

Excess Cash per Share: Excess Cash per Share is the amount of excess cash divided by basic shares outstanding. Excess Cash consists of all

cash and short-term securities less operating cash needed to run the business. Operating Cash is 5% of TTM net sales

revenue

**EBITDAR:** Earnings Before Interest, Taxes, Depreciation, Amortization, and Restructuring and Rent Costs. This is especially

important when comparing companies that use a significant amount of leased assets like restaurants and retailers.

NOPAT: Net Operating Profit after Tax represents a company's after-tax cash operating profit excluding financing costs.

Total Invested Capital: Total Invested Capital the total cash investment that shareholders and debt holders have made during the life of the

company

Return on Capital: Return on Capital equals NOPAT divided by Total Invested Capital. It is a key measure of operating efficiency. ROC

quantifies how well a company generates cash flow relative to the capital invested in its business.

Cost of Capital: Is the proportionately weighted cost of each category of capital – common equity, preferred equity and debt.

**Economic Profit:** Economic Profit is the net operating income after tax less the opportunity cost of the total capital invested. It is the most

important driver of shareholder value.

Current Operations Value: Current Operations Value is the portion of market value based on the discounted present value of the current earnings

stream assuming it remains constant forever.

Future Growth Value: Future Growth Value is the portion of market value based on un-earned Economic Profit

For more information on the key terms and measures, please review the Tigress Investment Research Guide to Company Valuation and Analysis.

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potential return ass universe. The pote represented by the	Companies Under Coverage			Relationship Companies Under Coverage*		
Rating:	Meaning:		#	%	#	%
Strong Buy:	Expect significant price gains in the price of the stock relative to its industry peer group and general market over the next 12 months.		16	14%	1	15%
Buy:	Expect out-performance for the price of the stock relative to its industry peer group and general market over the next 12 months.		51	44%	5	70%
Neutral:	Expect little or no outperformance opportunity over the next 12 months.		44	38%	1	15%
Underperform:	Expect underperformance for the price of the stock relative to its industry peer group and general market over the next 12 months.		5	4%	0	0%
Sell:	Expect price decline or significant relative market and industry underperformance over the next 12 months.		0	0%	0	0%
Not Rated	No Current Research Rating		NA	NA	65	NA
Partners LLC or or investment banking	panies under research coverage are companies in which Tigress Financial ne of its affiliates has received compensation for investment banking or nongeservices from the company, affiliated entities and / or its employees within the sor expects to do so within the next three months.	Total	116	100%	72	100%

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Company:	Disclosure:	
Snap-on Incorporated (SNA-US)	14	
Key Disclosure:		

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