

Crane Co. (CR)

\$65.48 (As of 11/16/20)

Price Target (6-12 Months): **\$69.00**

Long Term: 6-12 Months

Zacks Recommendation:

Neutral

(Since: 06/29/20)

Prior Recommendation: Underperform

Short Term: 1-3 Months

Zacks Rank: (1-5)

2-Buy

Zacks Style Scores:

VGM:C

Value: B

Growth: C

Momentum: D

Summary

Crane is poised to gain from product development, repositioning initiatives and policy of rewarding shareholders in the long term. The company's buyout of CIRCOR's Instrumentation & Sampling business has been adding value to its process valve unit. For 2020, the company believes that acquisitions will boost its sales by 7%. Also, its strong cash flows will continue to be beneficial. However, its shares have underperformed the industry in the past three months. The company is wary of the adverse impacts of the pandemic on its performance. For 2020, it predicts adjusted earnings of \$3.75-\$4.00 per share, which suggests a decline of 35.6% from the year-ago figure. Net sales are expected to decline 11% from the 2019 level, with core sales likely to fall 17-19% year over year. High debts might affect the company's profitability.

Data Overview

52-Week High-Low	\$89.54 - \$36.77
20-Day Average Volume (Shares)	425,110
Market Cap	\$3.8 B
Year-To-Date Price Change	-24.2%
Beta	1.45
Dividend / Dividend Yield	\$1.72 / 2.6%
Industry	Diversified Operations
Zacks Industry Rank	Bottom 33% (170 out of 254)

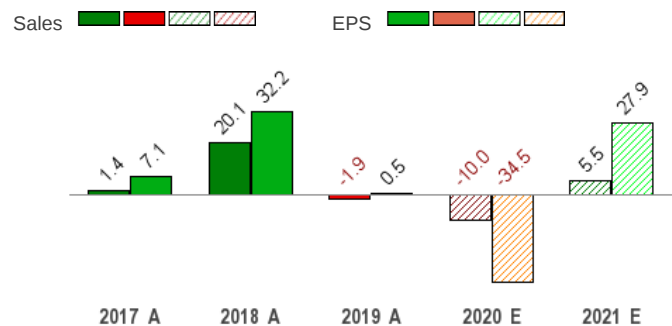
Last EPS Surprise	28.1%
Last Sales Surprise	9.4%
EPS F1 Estimate 4-Week Change	4.2%
Expected Report Date	01/25/2021
Earnings ESP	1.4%

P/E TTM	14.8
P/E F1	16.6
PEG F1	2.7
P/S TTM	1.3

Price, Consensus & Surprise



Sales and EPS Growth Rates (Y/Y %)



Sales Estimates (millions of \$)

	Q1	Q2	Q3	Q4	Annual*
2021	762 E	745 E	776 E	817 E	3,117 E
2020	798 A	678 A	735 A	745 E	2,955 E
2019	832 A	842 A	772 A	838 A	3,283 A

EPS Estimates

	Q1	Q2	Q3	Q4	Annual*
2021	\$1.12 E	\$1.10 E	\$1.27 E	\$1.31 E	\$5.04 E
2020	\$1.15 A	\$0.64 A	\$1.05 A	\$1.09 E	\$3.94 E
2019	\$1.45 A	\$1.58 A	\$1.40 A	\$1.58 A	\$6.02 A

*Quarterly figures may not add up to annual.

The data in the charts and tables, including the Zacks Consensus EPS and Sales estimates, is as of 11/16/2020. The reports text is as of 11/17/2020.

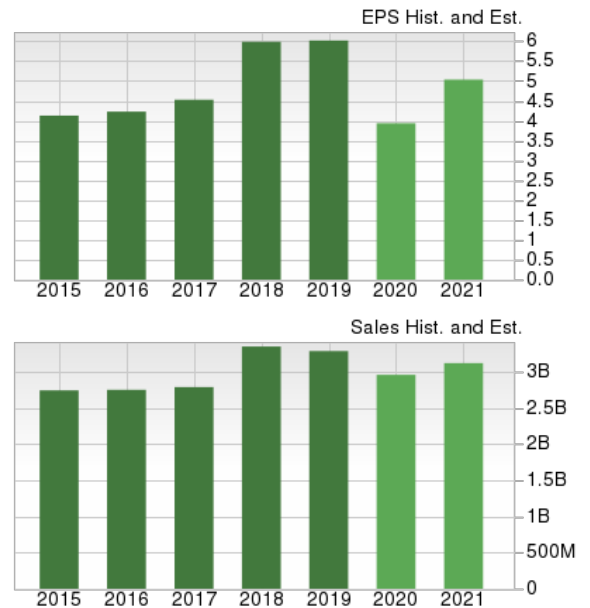
Overview

Crane Co., founded in 1855, is currently headquartered in Stamford, CT. The company is recognized for its diversified product portfolio of engineered industrial products. It employs roughly 12,000 people in the Americas, Australia, the Middle East, Europe and Asia.

Key end markets served by the company includes aerospace, electronics, chemical, power, non-residential construction, automated payment solutions and various general industrial as well as consumer related end markets. Products are either sold directly or through sales representatives and industrial distributors.

The company operates through four reporting segments, briefly discussed below:

- **Fluid Handling** (34.3% of total revenues in the third quarter of 2020): This segment manufactures and services valves for industrial usage as well as makes pumps and water treatment equipment for a variety of applications. The segment comprises businesses, including Pumps and Systems, Process Valves and Related Products, and Commercial Valves.
- **Payment & Merchandising Technologies** (37.7%): This segment deals with Crane Payment Innovations, Crane Merchandising Systems and Crane Currency businesses. Crane Payment Innovations offers coin accepters and dispensers, coin hoppers, coin recyclers, bill validators, and bill recyclers. Crane Merchandising Systems specializes in providing vending equipment and related solutions comprising food, snack, and beverage-vending machines, as well as vending machine software and online solutions. Crane Currency is engaged in supplying highly-engineered banknotes for central banks throughout the world.
- **Aerospace & Electronics** (21.5%): This segment's Aerospace group designs, manufactures, and supports critical aircraft systems and components; while the Electronic group provides high-density, high-reliability electronics for aerospace, space, military, industrial, and commercial applications.
- **Engineered Materials** (6.5%): This segment produces fiberglass-reinforced plastic panels. These products are mainly used in truck trailer and recreational vehicle markets, industrial markets, and the commercial construction industry.



Source: Zacks Investment Research

Reasons To Buy:

- ▲ In the present difficult times, Crane is poised to benefit from its diverse portfolio and efficient management team. It has exposure in many end markets like non-residential construction, aerospace, electronics, automated payment solutions, chemical, power and various general industrial. Weakness in one or more markets can be offset by gains in others. Also, its focus on product development, growth investments, acquired assets, repositioning and cost reduction initiatives are likely to aid it in the years ahead. In addition, the company's earnings estimates have increased 4.2% for 2020 and 3.7% for 2021 in the past 30 days.
- ▲ Crane initiated certain proactive repositioning actions in the second quarter of 2020. These include reduction of global workforce in response to the coronavirus-led market downturn and integrating activities related to the Cummins-Allison buyout. Also, in the fourth quarter of 2019, the company made certain repositioning actions for Fluid Handling segment like consolidation of manufacturing operations and workforce reduction. These actions are in addition to the company's repositioning activities for Payment & Merchandising, Fluid Handling, and Aerospace & Electronics segments started in the fourth quarter of 2017. The initiatives — including facility consolidations, especially in Europe and North America, and 3% reduction in the global workforce — might benefit it, going forward. However, costs associated with the repositioning activities are likely to weigh on it.
- ▲ Strong cash flows allow Crane to effectively deploy capital for making acquisitions, repurchasing shares and paying out dividend. Notably, in the first nine months of 2020, the company's free cash flow increased 56.1% to \$187.5 million on a year-over-year basis. It predicts free cash flow to be \$230-\$260 million for 2020, higher than the previous outlook of \$200-\$250 million. Also, in the first nine months of 2020, the company used \$75.4 million for paying dividends, reflecting a 7.6% increase from the year-ago comparable period, and repurchased shares worth \$70 million. In the third quarter, it paid out dividends worth \$25 million to shareholders and refrained from buying back any shares. It is worth noting here that it hiked the quarterly dividend rate by 10% in January 2020.
- ▲ Crane has been steadily strengthening business through acquisitions. In 2019, the company's investment in buyouts (net of acquired cash) totaled \$156.2 million, while that in the first nine months of 2020 totaled \$169.2 million. Acquired assets boosted its sales by 0.1% year over year in 2019 and added 6.8%, 6% and 7.7% to sales in the first, second and third quarters of 2020, respectively. It is worth mentioning here that Crane acquired Cummins Allison in December 2019. Since then, the buyout has been strengthening the Crane Payment Innovations business. Also, in January 2020, Crane acquired CIRCOR International's Instrumentation & Sampling business. The buyout has been adding value to Crane's process valve business. For 2020, the company believes that acquisitions will boost its sales by 7%.

Product development initiatives, repositioning activities, acquisitions and shareholder-friendly policies bode well for Crane in the quarters ahead.

Reasons To Sell:

- ▼ In third-quarter 2020, Crane's earnings declined 25% on a year-over-year basis. The decline was attributable to weak sales on account of the coronavirus outbreak-led market downturn and a fall in margin. The company expects adjusted earnings of \$3.75-\$4.00 per share for 2020. This suggests a 35.6% fall from \$6.02 reported in 2019. Adjusted earnings in the fourth quarter are expected to be 91 cents to \$1.16, suggesting a decline from \$1.58 recorded in the fourth quarter of 2019. In the past three months, shares of Crane have increased 14% against the industry's growth of 19.9%.
- ▼ In the third quarter, Crane's net sales decreased 4.9% year over year due to a 13.4% decline in organic sales (due mainly to the coronavirus outbreak). In the reported quarter, Fluid Handling segment's organic sales declined 15.3%, affected by broad-based decrease in demand in both of its process and commercial side of businesses. Payment & Merchandising Technologies segment's organic sales fell 7.8% on account of soft end markets. Organic revenues at Aerospace & Electronics and Engineered Materials segments recorded declines of 20.4% and 3.6%, respectively, owing to softness across original equipment, aftermarket, building products and transportation end markets. The company expects these headwinds to persist in the quarters ahead. For 2020, it predicts net sales of \$2,900-\$2,950 million, suggesting a decline of 11% from 2019's reported number. Core sales are predicted to decline 17-19%.
- ▼ With operations across the Americas, Australia, the Middle East, Europe and Asia, Crane's performance is exposed to the adverse impacts of macroeconomic cycles in the United States and international markets. Also, it faces headwinds from unfavorable foreign currency movements.
- ▼ A highly leveraged balance sheet can inflate Crane's financial obligations and subsequently hurt profitability. In the last three years (2017-2019), the company's long-term debt rose 19.4% (CAGR). Notably, the metric was \$842.7 million at the end of the third quarter of 2020, suggesting a marginal increase from the previous quarter. Interest expenses in the quarter increased 23.1% on a year-over-year basis. Also, the company's ability to repay the financial obligations seems to have weakened in the quarter, with times interest earned declining from 1.9 in the second quarter of 2020 to 1.5 in the third quarter.

Uncertainties caused by the coronavirus outbreak have marred Crane's earnings and sales prospects for the quarters ahead. Also, high debts might impact near-term profitability.

Last Earnings Report

Crane Q3 Earnings & Revenues Surpass Estimates, Down Y/Y

Crane reported better-than-expected third-quarter 2020 results. Its earnings and sales surpassed the Zacks Consensus Estimate by 28.1% and 9.4%, respectively.

Adjusted earnings in the reported quarter were \$1.05 per share, beating the consensus estimate of 82 cents. On a year-over-year basis, the bottom line declined 25% from \$1.40 due to lower sales.

Quarter Ending **09/2020**

Report Date	Oct 26, 2020
Sales Surprise	9.40%
EPS Surprise	28.05%
Quarterly EPS	1.05
Annual EPS (TTM)	4.42

Revenues

In the quarter under review, Crane's net sales were \$734.8 million, reflecting a decline of 4.9% from the year-ago quarter. Results were adversely impacted by a fall in core sales of \$104 million largely due to the coronavirus outbreak-led issues, partially offset by foreign exchange of \$10 million, and a benefit of \$57 million from acquisitions.

Crane's net sales beat the Zacks Consensus Estimate of \$672 million.

The company reports net sales under four segments — Fluid Handling, Payment & Merchandising Technologies, Aerospace & Electronics, and Engineered Materials. The segmental information is briefly discussed below:

Revenues from the Fluid Handling were \$252 million, down 8.7% from the year-ago quarter. Results reflected a 15.3% decline in core sales, partially offset by benefits of 1% from foreign exchange and 5% from acquisitions. The segment's order backlog was \$304.8 million in the reported quarter, reflecting a sequential increase of 2.1%.

Revenues from Payment & Merchandising Technologies totaled \$277 million, increasing 11.2% year over year. Results were driven by a 17% benefit from acquisitions and 2% from foreign exchange, partially offset by a core sales decline of 7.8%. Order backlog at the end of the quarter was \$270.1 million, down 5.4% sequentially.

Revenues from the Aerospace & Electronics were \$157 million, declining 20.4% year over year. The fall was mainly attributable to a decline in core sales. Order backlog at the end of the third quarter was \$498.1 million, down 1.5% sequentially.

Revenues from the Engineered Materials declined 4% year over year to \$48 million on lower sales to building products market. Core sales declined 3.6%. However, it was partially offset by higher sales to recreational vehicle customers. Order backlog at the end of the quarter was \$11.1 million, up 9.9% sequentially.

Lower Operating Margin

In the third quarter, Crane's cost of sales decreased 2.9% year over year to \$480 million. It represented 65.3% of net sales compared with 64% in the year-ago quarter. Selling, general and administrative expenses inched up 0.8% to \$169.9 million. It represented 23.1% of net sales compared with 21.8% a year ago.

Operating income in the third quarter decreased 22% year over year to \$85 million. Moreover, adjusted operating margin contracted 240 basis points to 12.4%.

Balance Sheet and Cash Flow

Exiting the third quarter, Crane had cash and cash equivalents of \$544.6 million, down 8% from \$592.1 million at the end of the last reported quarter. Long-term debt balance was marginally up sequentially to \$842.7 million.

In the first nine months of 2020, the company generated net cash of \$208.1 million from operating activities compared with \$171 million in the year-ago comparable period. Capital expenditure in the same period was \$20.6 million, down 59.5%.

In the third quarter, free cash flow was \$124.4 million compared with \$103.7 million in the year-ago quarter. In the quarter, Crane used \$25 million for paying dividends, whereas it distributed \$23.4 million a year ago.

Outlook

For 2020, the company currently anticipates adjusted earnings per share of \$3.75-\$4.00 compared with \$3.30-\$4.10 projected earlier. Sales are predicted to be \$2,900-\$2,950 million, suggesting year-over-year core sales decline of nearly 17-19%. Free cash flow is projected to be \$230-\$260 million for 2020 compared with the previous outlook of \$200-\$250 million.

Recent News

Dividend

On **Oct 26, 2020**, Crane's board of directors approved payment of a quarterly cash dividend of 43 cents per share to shareholders on record as of Nov 30, 2020. The disbursement will be made on Dec 9, 2020.

Valuation

Crane's shares have moved down 22.5% in the year-to-date period and 18.9% over the trailing 12 months. Stocks in both the Zacks sub-industry and the Zacks Conglomerates sector are up 12.8% in the year-to-date period. Over the past year, both the Zacks sub-industry and sector are up 15.2%.

The S&P 500 Index has moved up 14.7% year to date and 18.8% in the past year.

The stock is currently trading at 13.35x forward 12-month earnings, which compares to 28.03x for the Zacks sub-industry, 28.03x for the Zacks sector and 22.54x for the S&P 500 index.

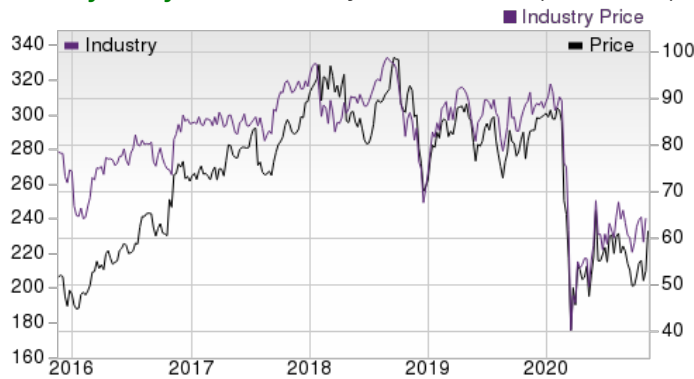
Over the past five years, the stock has traded as high as 20.1x and as low as 5.9x, with a 5-year median of 13.65x. Our Neutral recommendation indicates that the stock will perform in line with the market. Our \$69 price target reflects 14.07x forward 12-month earnings per share.

The table below shows summary valuation data for CR.

Valuation Multiples - CR					
		Stock	Sub-Industry	Sector	S&P 500
P/E F12M	Current	13.35	28.03	28.03	22.54
	5-Year High	20.1	28.03	28.03	23.47
	5-Year Low	5.9	15.76	15.76	15.27
	5-Year Median	13.65	18.51	18.51	17.72
P/Sales F12M	Current	1.23	4.73	4.73	4.2
	5-Year High	2.04	4.73	4.73	4.3
	5-Year Low	0.65	2.29	2.29	3.17
	5-Year Median	1.47	3.06	3.06	3.67

As of 11/16/2020 *Source: Zacks Investment Research*

Industry Analysis Zacks Industry Rank: Bottom 33% (170 out of 254)



Top Peers

Company (Ticker)	Rec	Rank
Dover Corporation (DOV)	Outperform	2
ITT Inc. (ITT)	Outperform	2
Flowserve Corporation (FLS)	Neutral	3
Honeywell International Inc. (HON)	Neutral	3
Ingersoll Rand Inc. (IR)	Neutral	3
ParkerHannifin Corporation (PH)	Neutral	2
Carlisle Companies Incorporated (CSL)	Underperform	4
Griffon Corporation (GFF)	Underperform	5

The positions listed should not be deemed a recommendation to buy, hold or sell.

Industry Comparison Industry: Diversified Operations				Industry Peers		
	CR	X Industry	S&P 500	CSL	DOV	PH
Zacks Recommendation (Long Term)	Neutral	-	-	Underperform	Outperform	Neutral
Zacks Rank (Short Term)	2	-	-	4	2	2
VGM Score	C	-	-	A	C	B
Market Cap	3.80 B	4.65 B	26.18 B	7.69 B	18.13 B	34.50 B
# of Analysts	3	3	13.5	4	8	8
Dividend Yield	2.63%	1.05%	1.48%	1.46%	1.57%	1.31%
Value Score	B	-	-	B	C	D
Cash/Price	0.15	0.20	0.06	0.10	0.02	0.02
EV/EBITDA	12.40	10.49	14.59	10.44	16.72	17.29
PEG F1	2.63	2.36	2.77	1.74	2.00	1.92
P/B	2.52	1.23	3.62	3.11	5.58	5.27
P/CF	8.21	7.73	13.69	11.95	15.97	17.72
P/E F1	16.42	21.41	22.23	26.08	22.95	22.66
P/S TTM	1.25	1.25	2.88	1.78	2.71	2.54
Earnings Yield	6.02%	3.84%	4.32%	3.84%	4.36%	4.41%
Debt/Equity	0.56	0.72	0.70	0.84	0.94	1.08
Cash Flow (\$/share)	7.97	2.28	6.92	12.06	7.88	15.12
Growth Score	C	-	-	A	C	B
Historical EPS Growth (3-5 Years)	7.55%	10.73%	9.77%	8.77%	17.24%	16.55%
Projected EPS Growth (F1/F0)	-34.61%	-13.00%	0.37%	-32.70%	-7.55%	9.59%
Current Cash Flow Growth	-1.40%	6.22%	5.34%	19.98%	10.20%	-2.94%
Historical Cash Flow Growth (3-5 Years)	7.00%	7.02%	8.33%	13.96%	1.28%	7.19%
Current Ratio	1.42	1.58	1.38	3.31	1.47	1.46
Debt/Capital	35.83%	41.71%	41.97%	45.65%	48.42%	51.89%
Net Margin	0.71%	2.27%	10.40%	7.91%	10.02%	8.75%
Return on Equity	18.09%	8.22%	15.07%	14.60%	26.73%	22.77%
Sales/Assets	0.67	0.72	0.50	0.74	0.75	0.67
Projected Sales Growth (F1/F0)	-10.00%	-0.36%	0.23%	-11.62%	-7.47%	-3.28%
Momentum Score	D	-	-	B	D	C
Daily Price Change	6.59%	0.87%	1.84%	2.42%	2.88%	3.44%
1-Week Price Change	16.28%	2.38%	4.29%	5.96%	5.03%	9.02%
4-Week Price Change	21.35%	4.74%	7.73%	14.88%	11.55%	20.91%
12-Week Price Change	12.14%	6.32%	10.59%	12.09%	13.30%	27.71%
52-Week Price Change	-20.84%	-16.35%	6.85%	-10.55%	15.33%	36.28%
20-Day Average Volume (Shares)	425,110	61,751	2,197,472	375,333	808,693	1,065,325
EPS F1 Estimate 1-Week Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
EPS F1 Estimate 4-Week Change	4.24%	1.53%	1.77%	1.21%	5.13%	14.03%
EPS F1 Estimate 12-Week Change	5.26%	4.05%	3.73%	-0.37%	5.59%	14.94%
EPS Q1 Estimate Monthly Change	-4.80%	0.00%	0.63%	-10.15%	-0.34%	10.14%

Source: Zacks Investment Research

Zacks Stock Rating System

We offer two rating systems that take into account investors' holding horizons: Zacks Rank and Zacks Recommendation. Each provides valuable insights into the future profitability of the stock and can be used separately or in combination with each other depending on your investment style.

Zacks Recommendation

The Zacks Recommendation aims to predict performance over the next 6 to 12 months. The foundation for the quantitatively determined Zacks Recommendation is trends in the company's estimate revisions and earnings outlook. The Zacks Recommendation is broken down into 3 Levels; Outperform, Neutral and Underperform. Unlike many Wall Street firms, we maintain a balance between the number of Outperform and Neutral recommendations. Our team of 70 analysts are fully versed in the benefits of earnings estimate revisions and how that is harnessed through the Zacks quantitative rating system. But we have given our analysts the ability to override the Zacks Recommendation for the 1200 stocks that they follow. The reason for the analyst over-rides is that there are often factors such as valuation, industry conditions and management effectiveness that a trained investment professional can spot better than a quantitative model.

Zacks Rank

The Zacks Rank is our short-term rating system that is most effective over the one- to three-month holding horizon. The underlying driver for the quantitatively-determined Zacks Rank is the same as the Zacks Recommendation, and reflects trends in earnings estimate revisions.

Zacks Style Scores

The Zacks Style Score is as a complementary indicator to the Zacks rating system, giving investors a way to focus on the highest rated stocks that best fit their own stock picking preferences.

Academic research has proven that stocks with the best Value, Growth and Momentum characteristics outperform the market. The Zacks Style Scores rate stocks on each of these individual styles and assigns a rating of A, B, C, D and F. We also produce the VGM Score (V for Value, G for Growth and M for Momentum), which combines the weighted average of the individual Style Scores into one score. This is perfectly suited for those who want their stocks to have the best scores across the board.

Value Score	B
Growth Score	C
Momentum Score	D
VGM Score	C

As an investor, you want to buy stocks with the highest probability of success. That means buying stocks with a Zacks Recommendation of Outperform, which also has a Style Score of an A or a B.

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Returns quoted represent past performance which is no guarantee of future results. Investment returns and principal value will fluctuate so that when shares are redeemed, they may be worth more or less than their original cost. Current performance may be higher or lower than the performance shown.

Investing involves risk; principal loss is possible. There is no guarantee that companies that can issue dividends will declare, continue to pay or increase dividends.

Glossary of Terms and Definitions

52-Week High-Low: The range of the highest and lowest prices at which a stock has traded during the past year. This range is determined based on the stock's daily closing price which may differ from the intra-day high or low. Many investors use it as a technical indicator to determine a stock's current value and future price movement. The idea here is that if price breaks out from the 52-week range, in either direction, the momentum may continue in the same direction.

20-Day Average Volume (Shares): The average number of shares of a company traded in a day over the last 20 days. It is a direct indication of a security's overall liquidity. The higher the average daily trading volume, the easier it is to enter or exit the stock at a desired price with more buyers and sellers being available.

Daily Price Change: This is the percentage difference between a trading day's closing price and the prior trading day's closing price. This item is updated at 9 p.m. EST each day.

1-Week Price Change: This is the percentage change in a stock's closing price over the last 5 trading days. This change reflects the collective buying and selling sentiment over the 1-week period.

A strong weekly price increase for the stock, especially when accompanied by increased volume, is an indication of it gaining momentum.

4-Week Price Change: This is the percentage change in a stock's closing price over the last 20 trading days or past 4 weeks. This is a medium-term price change metric and an indication of the stock gaining momentum.

12-Week Price Change: This is the percentage change of a stock's closing price over the last 60 trading days or past 12 weeks. Similar to 4-week price change, this is a medium-term price change metric. It shows whether a stock has been enjoying strong investor demand, or if it has been in consolidation, or distress over this period.

52-Week Price Change: This is the percentage change in a stock's closing price over the last 260 trading days or past 52 weeks. This long-term price change metric is a good reference point for investors. Some investors seek stocks with the best percentage price change over the last 52 weeks, expecting the momentum to continue.

Market Cap: The number of outstanding common shares of a company times its latest price per share. This figure represents a company's size, which indicates various characteristics, including price stability and risk, in which investors could be interested.

Year-To-Date Price Change: Change in a stock's daily closing price in the period of time beginning the first day of the current calendar year through to the previous trading day.

of Analysts: Number of EPS estimates used in calculating the current-quarter consensus. These estimates come from the brokerage analysts tracking this stock. However, the number of such analysts tracking this stock may not match the number of estimates, as all brokerage analysts may not come up with an estimate or provide it to us.

Beta: A measure of risk commonly used to compare the volatility of a stock to the overall market. The S&P 500 Index is the base for calculating beta and carries a value of 1. A stock with beta below 1 is less risky than the market as a whole. And a stock with beta above 1 is riskier.

Dividend: The portion of earnings a company is expected to distribute to its common shareholders in the next 12 months for each share they own. Dividends are usually paid quarterly. Dividend payments reflect positively on a company and help maintain investors' trust. Investors typically find dividend-paying stocks appealing because the dividend adds to any market price appreciation to result in higher return on investment (ROI). Moreover, a steady or increasing dividend payment provides investors a cushion in a down market.

Dividend Yield: The ratio of a company's annual dividend to its share price. The annual dividend used in the ratio is calculated based on the most recent dividend paid by the company. Dividend yield is an estimate of the dividend-only return from a stock in the next 12 months. Since dividend itself doesn't change frequently, dividend yield usually changes with a stock's price movement. As a result, often an unusually high dividend yield is a result of weak stock price.

S&P 500 Index: The Standard & Poor's 500 (S&P 500) Index is an unmanaged group of securities considered to be representative of the stock market in general. It is a market-capitalization-weighted index of stocks of the 500 largest U.S. companies. Each stock's weight in the index is proportionate to its market value.

Industry: One of the 250+ groups that Zacks classifies all stocks into based on the nature of business. These groups are termed as expanded (aka "X") industries and map to their respective (economic) sectors; Zacks has 16 sectors.

Zacks Industry Rank: The Zacks Industry Rank is determined by calculating the average Zacks Rank for all stocks in the industry and then assigning an ordinal rank to it. For example, an industry with an average Zacks Rank of 1.6 is better than an industry with an average Zacks Rank of 2.3. So, the industry with the better average Zacks Rank would get a better Zacks Industry Rank. If an industry has the best average Zacks Rank, it would be considered the top industry (1 out of 250+), which would place it at the top 1% of Zacks-ranked industries. Studies have shown that roughly half of a stock's price movement can be attributed to the industry group it belongs to. In fact, the top 50% of Zacks-ranked industries outperforms the bottom 50% by a factor of more than 2 to 1.

Last EPS Surprise: The percentage deviation of a company's last reported earnings per share from the Zacks Consensus Estimate. Companies with a positive earnings surprise are more likely to surprise again in the future (or miss again if they recently missed).

Last Sales Surprise: The percentage deviation of a company's last reported sales from the Zacks Consensus Estimate.

Expected Report Date: This is an estimated date of a company's next earnings release. The information originated or gathered by Zacks Investment Research from its information providers or publicly available sources is the basis of this estimate.

Earnings ESP: The Zacks Earnings ESP compares the Most Accurate Estimate to the Zacks Consensus Estimate for the yet-to-be reported quarter. The Most Accurate Estimate is the most recent version of the Zacks Consensus EPS Estimate. The idea here is that analysts revising their estimates closer to an earnings release have the latest information, which could potentially be more accurate than what they and others contributing to the consensus had predicted earlier. Thus, a positive or negative Earnings ESP reading theoretically indicates the likely deviation of the actual earnings from the consensus estimate. However, the model's predictive power is significant for positive ESP readings only. A positive Earnings ESP is a strong predictor of an earnings beat, particularly when combined with a Zacks Rank #1 (Strong Buy), #2 (Buy) or #3 (Hold). Our research shows that stocks with this combination produce a positive surprise nearly 70% of the time.

Periods:

TTM: Trailing 12 months. Using TTM figures is an effective way of analyzing the most-recent financial data in an annualized format that helps neutralize the effects of seasonality and other quarter-to-quarter variation.

F1: Current fiscal year. This period is used to analyze the estimates for the ongoing full fiscal year.

F2: Next fiscal year. This period is used to analyze the estimates for the next full fiscal year.

F12M: Forward 12 months. Using F12M figures is an effective way of analyzing the near-term (the following four unreported quarters) estimates in an annualized manner. Instead of typically representing estimates for the full fiscal year, which may not represent the nitty-gritty of each quarter, F12M figures suggest an all-inclusive annualized estimate for the following four quarters. The annualization helps neutralize the potential effects of seasonality and other quarter-to-quarter variations.

P/E Ratio: The price-to-earnings ratio measures a company's current market price per share relative to its earnings per share (EPS). Usually, the trailing-12-month (TTM) EPS, current-fiscal-year (F1) EPS estimate, or forward-12-month (F12M) EPS estimate is used as the denominator. In essence, this ratio shows what the market is willing to pay today for each dollar of EPS. In other words, this ratio gives a sense of what the relative value of the company is at the already reported level of earnings or at a future level of earnings.

It is one of the most widely-used multiples for determining the value of a company and helps comparing its valuation with that of a competitor, the industry group or a benchmark.

PEG Ratio: The price/earnings to growth ratio is a stock's P/E ratio using current fiscal year (F1) EPS estimate divided by its expected EPS growth rate over the coming 3 to 5 years. This ratio essentially determines a stock's value by factoring in the company's expected earnings growth and is thus believed to provide a more complete picture than just the P/E ratio, particularly for faster-growing companies.

P/S Ratio: The price-to-sales ratio is calculated as a company's current price per share divided by trailing 12 months (TTM) sales or revenues per share. This ratio shows what the market is willing to pay today for each dollar of TTM sales per share. The P/S ratio is at times the only valuation metric when the company has yet to become profitable.

Cash/Price Ratio: The cash-to-price ratio or Cash Yield is calculated as cash and marketable securities per share divided by the company's current share price. Like the earnings yield, which shows the anticipated yield (or return) on a stock from earnings for each dollar invested, the cash yield does the same, with cash being the source of return instead of earnings. For example, a cash/price ratio of 0.08 suggests a return of 8% or 8 cents for every \$1 investment.

EV/EBITDA Ratio: The EV/EBITDA ratio, also known as Enterprise Multiple, is calculated as a company's enterprise value (market capitalization + value of total long-term debt + book value of preferred shares - cash and marketable securities) divided by EBITDA (earnings before interest, taxes, depreciation and amortization). Usually, trailing-12-month (TTM) or forward-12-month (F12M) EBITDA is used as the denominator.

EV/Sales Ratio: The enterprise value-to-sales ratio is calculated as a company's enterprise value (market capitalization + value of total long-term debt + book value of preferred shares - cash and marketable securities) divided by annual sales. It is an expansion of the P/S valuation, which uses market value instead of enterprise value. The EV/Sales ratio is perceived as more accurate than P/S, in part, because the market capitalization does not take a company's debt into account when valuing it.

EV/CF Ratio: The enterprise value-to-cash flow ratio is calculated as a company's enterprise value (market capitalization + value of total long-term debt + book value of preferred shares - cash and marketable securities) divided by the trailing-12-month (TTM) operating cash flow. It's a measure of how long it would take to buy the entire business if you were able to use all the company's operating cash flow.

The EV/CF ratio is perceived as more accurate than the P/CF ratio, in part, because the market price does not take a company's debt into account when valuing it.

EV/FCF Ratio: The enterprise value-to-free cash flow metric compares a company's enterprise value to its trailing-12-month (TTM) free cash flow (FCF). This metric is very similar to the EV/CF ratio, but is considered a more exact measure owing to the fact that it uses free cash flow, which subtracts capital expenditures (CAPEX) from a company's total operating cash flow, thereby reflecting the actual cash flow available for funding growth activities and payments to shareholders.

P/EBITDA Ratio: The P/EBITDA ratio is calculated as a company's per share market value divided by EBITDA (earnings before interest, taxes, depreciation, and amortization). This metric is very similar to the EV/EBITDA ratio, but is considered a little less exact measure as it uses market price, which does not take a company's debt into account. However, since EBITDA is often considered a proxy for cash income, the metric is used as a measure of what the market is willing to pay today for each dollar of the company's cash profitability in the trailing 12 months (TTM) or forward 12 months (F12M).

P/B Ratio: The price-to-book ratio is calculated as a company's current price per share divided by its book value (total assets – liabilities – preferred stocks) per share. In short, the book value is how much a company is worth. In other words, it reflects the total value of a company's assets that its common shareholders would receive if it were to be liquidated. So, the P/B ratio indicates whether you're paying higher or lower than what would remain if the company went bankrupt immediately. Investors typically use this metric to determine how a company's stock price stacks up to its intrinsic value.

P/TB Ratio: The price-to-tangible-book value ratio is calculated as a the per share market value of a company divided by the value of its tangible assets (total assets – liabilities – preferred stocks – intangible assets) per share. Tangible book value is the same thing as book value except it excludes the value of intangible assets to get a step closer to the baseline value of the company.

P/CF Ratio: The price-to-cash flow ratio measures a company's per share market price relative to its trailing-12-month (TTM) operating cash flow per share. This metric is used to determine whether a company is undervalued or overvalued relative to another stock, industry or sector. And like the P/E ratio, a lower number is typically considered better from the value perspective.

One of the reasons why P/CF ratio is often preferred over P/E ratio is the fact that operating cash flow adds back non-cash expenses such as depreciation and amortization to net income. This feature helps valuing stocks that have positive cash flow but are not profitable because of large noncash charges.

P/FCF Ratio: The price-to-free cash flow ratio is an extension of P/CF ratio, which uses trailing-12-month (TTM) free cash flow per share instead of operating cash flow per share. This metric is considered a more exact measure than P/CF ratio, as free cash flow subtracts capital expenditures (CAPEX) from a company's total operating cash flow, thereby reflecting the actual cash flow available for funding activities that generate additional revenues.

Earnings Yield: The earnings yield is calculated as current fiscal year (F1) EPS estimate divided by the company's current share price. The ratio, which is the inverse of the P/E ratio, measures the anticipated yield (or return) from earnings for each dollar invested in a stock today.

For example, earnings yield for a stock, which is trading at \$35 and expected to earn \$3 per share in the current fiscal year (F1), would be 0.0857 ($3/35 = 0.0857$) or 8.57%. In other words, for \$1 invested in the stock today, the yield from earnings is anticipated to be 8.57 cents.

Investors most commonly compare the earnings yield of a stock to that of a broad market index (such as the S&P 500) and prevailing interest rates, such as the current 10-year Treasury yield. Since bonds and stocks compete for investors' dollars, stock investors typically demand a higher yield for the extra risk they assume compared to investors of U.S. Treasury-backed securities that offer virtually risk-free returns. This additional return is referred to as the risk premium.

Debt/Equity Ratio: The debt-to-equity ratio is calculated as a company's total liabilities divided by its shareholder equity. This metric is used to gauge a company's financial leverage. In other words, it is a measure of the degree to which a company is financing its operations through debt versus its own funds. The higher the ratio, the higher the risk for shareholders.

However, this ratio is difficult to compare across industry groups where ideal amounts of debt vary. Some businesses are more capital intensive than others and typically require higher debt to finance their operations. So, a company's debt-to-equity ratio should be compared with other companies in the same industry.

Cash Flow (\$/share): Cash flow per share is calculated as operating cash flow (after-tax earnings + depreciation + other non-cash charges) divided by common shares outstanding. It is used by many investors as a measure of a company's financial strength. Since cash flow per share takes into consideration a company's ability to generate cash by adding back non-cash expenses, it is regarded by some as a more accurate measure of a company's financial situation than earnings per share, which could be artificially deflated.

Current Ratio: The current ratio or liquidity ratio is a company's current assets divided by its current liabilities. It measures a company's ability to pay short-term obligations. A current ratio that is in line with the industry average or slightly higher is generally considered acceptable. A current ratio that is lower than the industry average would indicate a higher risk of distress or default. A higher number is usually better. However, a very high current ratio compared to the industry average could be an indication of inefficient use of assets by management.

Debt/Capital Ratio: Debt-to-capital ratio is a company's total debt (interest-bearing debt + both short- and long-term liabilities) divided its total capital (interest-bearing debt + shareholders' equity). It is a measure of a company's financial leverage. All else being equal, the higher the debt-to-capital ratio, the riskier the stock.

However, this ratio can vary widely from industry to industry, the ideal amount of required debt being different. Some businesses are more capital intensive than others and typically require higher debt to finance their operations. So, a company's debt-to-capital ratio should be compared with the same for its industry.

Net Margin: Net margin is calculated as net income divided by sales. It shows how much of each dollar in sales generated by a company translates into profit. For example, if a company's net margin is 15%, its net income is 15 cents for every \$1 of sales it makes.

A change in margin can reflect either a change in business conditions, or a company's cost controls, or both. If a company's expenses are growing faster than sales, its net margin will decline. However, different net margin rates are considered good for different industries, so it's better to compare net margin rates of companies in the same industry group.

Return on Equity: Return on equity (ROE) is calculated as trailing-12-month net income divided by trailing-12-month average shareholder equity (including reinvested earnings). This metric is considered a measure of how effectively management is using a company's assets to generate profits. For example, if a company's ROE is 10%, it creates 10 cents profits for every \$1 shareholder equity, which is basically the company's assets minus debt. A company's ROE deemed good or bad depends on what's normal for its peers or industry group.

Sales/Assets Ratio: The sales-to-assets ratio or asset utilization ratio or asset turnover ratio is calculated as a company's annual sales divided by average assets (average of assets at the beginning of the year and at the year's end). This metric helps investors understand how effectively a company is using its assets to generate sales. For example, a sales-to-assets ratio of 2.5 indicates that the company generated \$2.50 in sales for every \$1 of assets on its books.

The higher the sales-to-assets ratio, the better the company is performing. However, similar to many other ratios, the asset turnover ratio tends to be higher for companies in certain industries/sectors than in others. So, a company's sales-to-assets ratio should be compared with the same for its industry/sector.

Historical EPS Growth (3-5 Years): This is the average annual (trailing-12-month) EPS growth rate over the last 3-5 years. This metric helps investors see how a company's EPS has grown from a long-term perspective.

Note: There are many factors that can influence short-term numbers — a recession will reduce this number, while a recovery will inflate it. The longterm perspective helps smooth out short-term events.

Projected EPS Growth (F1/F0): This is the estimated EPS growth rate for the current financial year. It is calculated as the consensus estimate for the current fiscal year (F1) divided by the reported EPS for the last completed fiscal year (F0).

Current Cash Flow Growth: It measures the latest year-over-year change in operating cash flow. Cash flow growth tells an investor how quickly a company is generating inflows of cash from operations. A positive change in the cash flow is desired and shows that more 'cash' is coming in than going out.

Historical Cash Flow Growth (3-5 Years): This is the annualized change in cash flow over the last 3-5 years. The change in a longer period helps put the current reading into proper perspective. By looking at the rate, rather than the actual dollar value, the comparison across the industry and peers becomes easier.

Projected Sales Growth (F1/F0): This metric looks at the estimated sales growth for the current year. It is calculated as sales estimate for the current fiscal year (F1) divided by the reported sales for the last completed fiscal year (F0).

Like EPS growth, a higher rate is better for sales growth. A look at a company's projected sales growth instantly tells you what the outlook is for their products and services. However, different sales growth rates are considered good for different industries, so it's better to compare sales growth rates of companies in the same industry group.

EPS F1 Estimate 1-Week Change: The percentage change in the Zacks Consensus EPS estimate for the current fiscal year over the past week. The change in a company's consensus EPS estimate (or earnings estimate revision) has proven to be strongly correlated with the near-term price movement of its shares. It is an integral part of the Zacks Rank.

If a stock's consensus EPS estimate is \$1.10 now versus \$1.00 a week ago, that will be reflected as a 10% upward revision. If, on the other hand, it went from \$1.00 to 90 cents, that would be a 10% downward revision.

EPS F1 Estimate 4-Week Change: The percentage change in the Zacks Consensus EPS estimate for the current fiscal year over the past four weeks.

A stock's earnings estimate revision in a 1-week period is important. But it's more meaningful to look at the longer-term revision. And, of course, the 4-week change helps put the 1-week change into proper perspective.

EPS F1 Estimate 12-Week Change: The percentage change in the Zacks Consensus EPS estimate for the current fiscal year over the past 12 weeks.

This metric essentially shows how the consensus EPS estimate has changed over a period longer than 1 week or 4 weeks.

EPS Q1 Estimate Monthly Change: The percentage change in the Zacks Consensus EPS estimate for the current fiscal quarter over the past four weeks.

While the revision in consensus EPS estimate for the current fiscal year is strongly correlated with the near-term price movement of its shares, the estimate revision for the current fiscal quarter is an important metric as well, especially over the short term, and particularly as a stock approaches its earnings date. If a stock's Q1 EPS estimate decreases ahead of its earnings release, it's usually a negative sign, whereas an increase is a positive sign.