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CHIPOTLE

Sector Recap

## Valuation and Returns



| Annualized Returns | 10Y | 5Y | 3Y | 1Y | 3M | YTD |
| :--- | ---: | :--- | :--- | :--- | :--- | :--- |
| Cons. Discretionary (S5COND) | $17.80 \%$ | $20.65 \%$ | $24.01 \%$ | $35.41 \%$ | $47.73 \%$ | $31.11 \%$ |
| S\&P 500 (SPX) | $13.90 \%$ | $16.73 \%$ | $19.33 \%$ | $40.97 \%$ | $20.60 \%$ | $30.04 \%$ |
| Alpha | $3.90 \%$ | $3.92 \%$ | $4.68 \%$ | $-5.56 \%$ | $27.13 \%$ | $1.07 \%$ |


| $\mathbf{1 0 / 2 9 / 2 0 2 1}$ | MTD | Trailing <br> 3MO | Calendar <br> YTD | Fiscal <br> YTD | Trailing <br> 12MO | 3YR | 5YR | 10YR | 15YR | Inception |
| :--- | ---: | ---: | ---: | ---: | ---: | :---: | :---: | :---: | ---: | ---: |
| SIM (Gross of fees) | $3.92 \%$ | $-0.84 \%$ | $17.21 \%$ | $0.04 \%$ | $37.55 \%$ | $18.24 \%$ | $17.02 \%$ | $13.76 \%$ | $8.21 \%$ | $9.27 \%$ |
| SIM (Net of fees) | $3.92 \%$ | $-1.09 \%$ | $16.34 \%$ | $-0.21 \%$ | $36.23 \%$ | $17.09 \%$ | $15.87 \%$ | $12.65 \%$ | $\mathbf{7 . 3 2 \%}$ | $8.56 \%$ |
| Net Performance | $\mathbf{- 3 . 0 8 \%}$ | $\mathbf{- 6 . 2 2 \%}$ | $\mathbf{- 7 . 7 1 \%}$ | $\mathbf{- 7 . 8 4 \%}$ | $\mathbf{- 6 . 6 8 \%}$ | $\mathbf{- 4 . 3 9 \%}$ | $\mathbf{- 3 . 0 6 \%}$ | $\mathbf{- 3 . 5 7 \%}$ | $\mathbf{- 3 . 3 0 \%}$ | $\mathbf{- 2 . 4 1 \%}$ |


| Securities Allocation |  |  |  |
| :---: | :---: | :---: | :---: |
| Sector | S\&P 500 Weight | SIM Weight | +/- |
| Information Technology | 27.94\% | 25.37\% | -2.57\% |
| Financials | 11.41\% | 13.02\% | 1.61\% |
| Health Care | 13.02\% | 13.65\% | 0.63\% |
| Consumer Discretionary | 12.82\% | 11.75\% | -1.07\% |
| Consumer Staples | 5.60\% | 5.63\% | 0.03\% |
| Industrials | 8.03\% | 8.07\% | 0.04\% |
| Energy | 2.86\% | 4.19\% | 1.33\% |
| Utilities | 2.41\% | 1.89\% | -0.52\% |
| Materials | 2.49\% | 3.23\% | 0.74\% |
| Communication Services | 10.83\% | 11.23\% | 0.40\% |
| Real Estate | 2.59\% | 1.98\% | -0.62\% |
| Total | 100.00\% | 100.00\% | 0.00\% |

## Our Recommendation

It is our recommendation that the portfolio goes neutral on the overall consumer discretionary sector. Within the sector, it would make sense to go overweight into e-commerce retailers which have the scale to combat inflationary and supply chain concerns.

- Over the past 5 years, Consumer Discretionary has outpaced the broader S\&P 500 index, and currently has a P/E of 40.00x significantly higher than the market's $26.56 x$
- Traditionally, Q4 is the largest quarter for Consumer Discretionary, as holiday shopping drives consumer spending to its highest levels of the year
- However, due to inflationary concerns and supply chain disruptions from COVID-19, there are some headwinds the industry would not usually face
- Major online retailers like Amazon should be overweight their traditional holdings within the sector. We believe that this is because they will have the scale to combat inflationary and supply chain concerns, and will likely only separate themselves further from the competition this holiday season
- We recommend going underweight the Automobiles \& Components industry because we believe that uncertainty around supply chain and chip shortages will drag on the sector throughout the next year


## Current SIM Holdings

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Quantity | Security | Ticker | Unit Cost | Total Cost | Market Price | Market Value | Unrealized Gain/(Loss) | Unit | Income | Est. Ann. Income | \%age Assets | Eq shares out | Market Cap (In Millions \$) | Beta |
| 118 | AMAZON.COM INC | AMZN | 796.41 | \$93,976.09 | 3,372.43 | \$397,946.74 | \$303,971 |  |  | \$0.0 | 4.01\% | 507.148 | 1,710,319.8 | 0.69 |
| 8,790 | GENERAL MOTORS CO | GM | 29.54 | \$259,682.29 | 54.43 | \$478,439.70 | \$218,757 |  | - | \$0.0 | 4.82\% | 1,451.860 | 79,024.7 | 1.45 |
| 1,500 | TJX Cos Inc | TJX | 69.06 | \$103,584.00 | 65.49 | \$98,235.00 | ( 55,349 ) |  | 1.04 | \$1,560.0 | 0.99\% | 1,202.539 | 78,754.3 | 1.33 |
| 910 | WHIRLPOOL CORP | WHR | 234.21 | \$213,126.55 | 210.83 | \$191,855.30 | (\$21,271) |  | 5.60 | \$5,096.0 | 1.93\% | 60.743 | 12,806.5 | 1.36 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Average P/E | 26.51 |  |  |  |  |  |  |  |  |  | AGGREGATE PORTFOLIO METRICS |  |  |
|  | Average P/BV | 6.43 |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Avg. Mkt. Cap. (\$m) | 349,750.70 |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Avg. Wtd. Mkt. Cap (\$m) | 462,348.08 |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Portfolio Beta | 1.07 |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Dividend Yield | 1.32 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | Securities Allocation |  |  |  |  |  |  |  |
|  |  |  |  |  |  | Sector | S8P 500 Weight |  | SIM Weight | +1- |  |  |  |  |
|  |  |  |  |  | Information | echnology |  | .94\% | 25.37\% | -2.57\% |  |  |  |  |
|  |  |  |  |  | Financials |  |  | .41\% | 13.02\% | 1.61\% |  |  |  |  |
|  |  |  |  |  | Health Care |  |  | .02\% | 13.65\% | 0.63\% |  |  |  |  |
|  |  |  |  |  | Consumer | iscretionary |  | 2.82\% | 11.75\% | -1.07\% $\sim 12$ | in Novem | oer |  |  |
|  |  |  |  |  | Consumer | taples |  | .60\% | 5.63\% | 0.03\% |  |  |  |  |
|  |  |  |  |  | Industrials |  |  | .03\% | 8.07\% | 0.04\% |  |  |  |  |
|  |  |  |  |  | Energy |  |  | .86\% | 4.19\% | 1.33\% |  |  |  |  |
|  |  |  |  |  | Utilities |  |  | .41\% | 1.89\% | -0.52\% |  |  |  |  |
|  |  |  |  |  | Materials |  |  | 2.49\% | 3.23\% | 0.74\% |  |  |  |  |
|  |  |  |  |  | Communic | tion Services |  | .83\% | 11.23\% | 0.40\% |  |  |  |  |
|  |  |  |  |  | Real Estate |  |  | .59\% | 1.98\% | -0.62\% |  |  |  |  |
|  |  |  |  |  |  | Total |  | .00\% | 100.00\% | 0.00\% |  |  |  |  |

## Stock Considerations




Amazon

## Amazon

| Ticker | AMZN | Share Price | $\$ 3,545.68$ |
| :--- | :--- | :--- | :--- |
| Founded | 1994 | Market Cap | $\$ 1.798$ T |
| Sector | Consumer <br> Discretionary | Industry | Internet \& Direct <br> Marketing |
| Revenue | $\$ 457.9$ B | E.P.S. | $26.9 x$ |
| 52 Week High | $\$ 3,773.08$ | P/E | $69.0 x$ |
| 52 Week Low | $\$ 2,881.00$ | Beta | 1.11 |
| Dividend Yield | N/A | One-Year Return | $13.24 \%$ |

## Business Analysis

- Headquarters: Seattle, WA | Employees: 1,298,000
- Amazon operates under three main segments: North America, International, and Amazon Web Services.
- North American retail is responsible for $61 \%$ of sales, while Amazon Web Services is responsible for $59 \%$ of operating income.
- Amazon Retail has seen immense growth from its Amazon Prime membership, which includes Prime Video and free 2-day shipping.
- The Amazon Basics product line has also allowed Amazon to directly manufacture and distribute products to consumers.
- The company has been highly acquisitive in recent years, with notable acquisitions including MGM Studios, Whole Foods and Twitch.


## E-Commerce Market Share



## Operating Income



## Company News

- Unionization attempt in New York City Warehouse was withdrawn last week, marking another victory for Amazon, similar to the Bessemer, Alabama warehouse this summer.
- On October 28th, the Company reported earnings that were seen as a disappoint compared to Wall Street Consensus.
- Earnings per share of $\$ 6.12$ was significantly less than consensus of $\$ 8.92$, while the $\$ 100.81$ billion in revenue also fell short of an estimate of $\$ 111.6$ billion.
- Fourth quarter guidance also disappointed analysts, with the range of \$130-\$140 billion falling below consensus expectations of $\$ 142.1$ billion.
- Management believes that earnings will be impacted by increased costs from labor shortages, as well as increased freight and shipping costs due to supply chain constraints.


## Financial Analysis - Historical

| Key Income Statement (\$ in millions, except per share data) |  |  |  |  |
| :--- | :--- | :---: | :---: | :---: |
| Revenue | $\$ 457,965$ |  |  |  |
| COGS | $\$ 268,793$ |  |  |  |
| Other Operating Expenses | $\$ 160,880$ |  |  |  |
| EBIT (Operating Profit) | $\$ 28,292$ |  |  |  |
| Operating Margin | $6.18 \%$ |  |  |  |
| Net Income | $\$ 26,263$ |  |  |  |
| Diluted E.P.S. | $\$ 51.10$ |  |  |  |


|  | Key Balance Sheet |
| :--- | :--- |
| Cash | $\$ 29,944$ |
| Current Assets | $\$ 138,531$ |
| Current Liabilities | $\$ 123,994$ |
| Total Debt | $\$ 136,238$ |


|  | Key Balance Sheet |
| :--- | :--- |
| Capital Expenditures | $\$ 56,941$ |
| Depreciation and Amortization | $\$ 32,112$ |

## Financial Analysis - Projections

|  | FY | FY | FY | FY | FY | FY | FY | FY |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (000\$) | 2023E | 2022E | 2021E | 2020 | 2019 | 2018 | 2017 | 2016 |
| Consensus | \$659,924.0 | \$563,967.0 | \$476,358.0 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Net product sales | 303,345.03 | 270,843.78 | 241,824.80 | 215,915.00 | 160,408.00 | 141,915.00 | 118,573.00 | 94,665.00 |
| Net service sales | 373,817.35 | 287,551.81 | 221,193.70 | 170,149.00 | 120,114.00 | 90,972.00 | 59,293.00 | 41,322.00 |
| Total net sales | \$677,162.4 | \$558,395.6 | \$463,018.5 | \$386,064.0 | \$280,522.0 | \$232,887.0 | \$177,866.0 | \$135,987.0 |
| Cost of sales | 402,911.6 | 335,037.4 | 277,811.1 | 233,307.0 | 165,536.0 | 139,156.0 | 111,934.0 | 88,265.0 |
| Fulfillment | 93,109.8 | 78,175.4 | 64,822.6 | 58,517.0 | 40,232.0 | 34,027.0 | 25,249.0 | 17,619.0 |
| Technology and content | 59,251.7 | 50,255.6 | 41,671.7 | 42,740.0 | 35,931.0 | 28,837.0 | 10,069.0 | 7,233.0 |
| Marketing | 52,480.1 | 44,671.6 | 37,041.5 | 22,008.0 | 18,878.0 | 13,814.0 | 22,620.0 | 16,085.0 |
| General and administrative | 12,188.9 | 10,383.7 | 8,610.1 | 6,668.0 | 5,203.0 | 4,336.0 | 3,674.0 | 2,432.0 |
| Other operating expense | 572.1 | 471.8 | 391.2 | (75.0) | 201.0 | 296.0 | 214.0 | 167.0 |
| Total operating expenses | \$620,514.3 | \$518,995.5 | \$430,348.1 | \$363,165.0 | \$265,981.0 | \$220,466.0 | \$173,760.0 | \$131,801.0 |
| Operating income | \$56,648.1 | \$39,400.1 | \$32,670.4 | \$22,899.0 | \$14,541.0 | \$12,421.0 | \$4,106.0 | \$4,186.0 |
| Interest income | 1,105.7 | 911.7 | 756.0 | 555.0 | 832.0 | 440.0 | 202.0 | 100.0 |
| Interest expense | $(5,412.8)$ | $(4,463.5)$ | $(3,701.1)$ | $(1,647.0)$ | $(1,600.0)$ | $(1,417.0)$ | (848.0) | (484.0) |
| Other income (expense), net | 7,990.2 | 6,588.8 | 5,463.4 | 2,371.0 | 203.0 | (183.0) | 346.0 | 90.0 |
| Total non-operating income (expense) | \$3,683.0 | \$3,037.0 | \$2,518.3 | \$1,279.0 | (\$565.0) | (\$1,160.0) | (\$300.0) | (\$294.0) |
| Income before income taxes | \$60,331.1 | \$42,437.2 | \$35,188.7 | \$24,178.0 | \$13,976.0 | \$11,261.0 | \$3,806.0 | \$3,892.0 |
| Provision for income taxes | $(11,616.8)$ | $(8,171.3)$ | $(6,775.6)$ | $(2,863.0)$ | $(2,374.0)$ | $(1,197.0)$ | (769.0) | $(1,425.0)$ |
| Equity-method investment activity, net of tax | (17.8) | (17.8) | (17.8) | 16.0 | (14.0) | 9.0 | (4.0) | (96.0) |
| Net income | \$48,696.4 | \$34,248.0 | \$28,395.2 | \$21,331.0 | \$11,588.0 | \$10,073.0 | \$3,033.0 | \$2,371.0 |
|  |  |  |  |  |  |  |  |  |
| EPS |  |  |  |  |  |  |  |  |
| Basic | 93.64 | 66.73 | 56.05 | 42.66 | 23.46 | 20.68 | 6.32 | 5.00 |
| Diluted | 91.81 | 65.42 | 54.95 | 41.83 | 22.99 | 20.15 | 6.15 | 4.90 |
| Consensus - GAAP | 89.3 | 65.8 | 52.4 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Operating Margin | 8.4\% | 7.1\% | 7.1\% | 5.9\% | 5.2\% | 5.3\% | 2.3\% | 3.1\% |

## Valuation Analysis - DCF

## Growth Rate

|  | $2.50 \%$ |  | $2.75 \%$ | $3.0 \%$ | $3.25 \%$ |
| ---: | :---: | ---: | ---: | ---: | ---: |
| $5.80 \%$ | $\$ 5,589.63$ | $\$ 5,959.91$ | $\$ 6,396.31$ | $\$ 6,918.27$ | $\$ 7,553.71$ |
| $6.30 \%$ | $\$ 4,804.73$ | $\$ 5,069.52$ | $\$ 5,374.43$ | $\$ 5,729.33$ | $\$ 6,147.60$ |
| $6.80 \%$ | $\$ 4,203.56$ | $\$ 4,400.18$ | $\$ 4,622.69$ | $\$ 4,876.53$ | $\$ 5,168.83$ |
| $7.30 \%$ | $\$ 3,728.65$ | $\$ 3,878.98$ | $\$ 4,046.80$ | $\$ 4,235.34$ | $\$ 4,448.68$ |
| $7.80 \%$ | $\$ 3,344.24$ | $\$ 3,461.88$ | $\$ 3,591.79$ | $\$ 3,735.96$ | $\$ 3,896.90$ |

## Valuation Analysis - Relative Valuation

| Absolute Basis | High | Low | Median | Current |
| :--- | :--- | :--- | :--- | :--- |
| P/E | 662.73 | 0 | 139.78 | 61.17 |
| P/B | 23.79 | 10.15 | 17.24 | 15.47 |
| P/S | 4.22 | 1.61 | 2.78 | 3.98 |


| Ticker | P/E | P/S | P/B | P/CF | EV/ <br> EBITDA |
| :--- | :--- | :--- | :--- | :--- | :--- |
| AMZN | 61.16 | 3.98 | 15.47 | 29.73 | 27.7 |
| WMT | 23.75 | .73 | 5.12 | 14.04 | 12.5 |
| TGT | 18.98 | 1.21 | 8.00 | 13.7 | 11.33 |
| GOOGL | 44.1 | 8.83 | 8.11 | 24.05 | 23.77 |
| MSFT | 37.67 | 13.48 | 15.9 | 29.51 | 26.37 |
| AAPL | 30.69 | 7.6 | 40.36 | 25.29 | 22.62 |
| Average | 36.06 | 5.97 | 15.49 | 22.72 | 20.7 |


| Absolute <br> Valuation | Current <br> Stock <br> Price | Current <br> Multiple | Your <br> Target <br> Multiple | Target/ <br> Current | Target <br> Price |
| :--- | :--- | :--- | :--- | :--- | :--- |
| P/E | $3,478.05$ | 61.16 | 50.0 | 0.82 | $2,843.40$ |
| P/B | $3,478.05$ | 15.47 | 20.0 | 1.29 | $4,496.51$ |
| P/S | $3,478.05$ | 3.98 | 6.5 | 1.63 | $5,680.23$ |
| EV/EBITDA | $3,478.05$ | 27.7 | 25.0 | 0.90 | $3,139.03$ |

## Recommendation

## Growth Drivers

- Amazon has continued to stay entrenched in its position as the e-commerce industry leader, even as major legacy retail competitors like Walmart and Target spend significantly to grow their presence.
- The cloud computing space represents a highly profitable and growing industry for Amazon, as AWS boasts impressive margins and revenue growth year-over-year.
- The Company has a proven acquisition strategy, enabling the company to make net positive investments such as its recent stake in electric vehicles manufacturer Rivian.


## Risks

- A prolonged inflationary environment will lead the Company to continue to raise prices. If costs cannot successfully be passed onto the end-consumer, margins on the retail business will shrink.
- A prolonged labor shortage could inhibit the company's ability to operate efficiency, as well as lead to increased labor costs.
- A continued reopening of the world economy could result in a decline to e-commerce revenues, as consumer may prefer to begin returning to traditional brick-and-mortar retailers.

| Current SIM <br> Weight | Current <br> S\&P Weight | Proposed <br> Weight | Current <br> Price | Target Price | Buy / Hold / <br> Sell | Expected <br> Return |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 401 bps | 390 bps | 450 bps | $\$ 3,545.68$ | $\$ 4,500$ | BUY | $26.9 \%$ |



## Whirlpool

## Company Overview

－Ticker：WHR
－Sector：Consumer Discretionary
－Current Weight in S\＆P500： 3.6 bps
－Current SIM weight： 193 bps
－Industry：Home Appliances
－Market Cap：\＄13．81B
－Stock Price：\＄232．18
－Shares Outstanding：63．3m
－ 52 Week High：$\$ 257.68$
－ 52 Week Low：$\$ 171.33$
－One Year Return：24．33\％
－Beta： 1.43
－Dividend Yield：2．57\％
－P／E： 7.92

## Whirlpool

| Whirlpool | KitchenAid | MAYTAG | （i）indesit | Hotpoint | Consul |
| :---: | :---: | :---: | :---: | :---: | :---: |
| BRASTEMP | AMANA | JENNAIマ | Braknecht | acros ${ }^{\circ}$ | DICUA 盛闈 |

## Business Analysis

- Founded in 1911, Whirlpool has a continued legacy of market dominance and disruption in the home appliance space
- Worldwide, Whirlpool has over 78,000 employees ( $90+\%$ outside the US), 57 manufacturing and technology research centers, and over \$19bn in 2020 sales (with $\$ 17.08$ in diluted EPS)
- Hybrid work trend -> spike in e-commerce distribution, as well as continued investment in Whirlpool's D2C business (\$1bn value growing at 25\% a year)
- Business Strategy: Currently, KitchenAid and Whirlpool brands enable the company's position as a market leader in kitchen and laundry appliances
- From there, Whirlpool houses regionally distinguished brands (like Indesit, Maytag, and Consul) to further diversify product offerings based on local customer fit and enter new markets


## Sustained Competitive Edges

- Innovation and R\&D
- Legacy and pipeline (space kitchens, digital)
- Target 3\% of net sales to R\&D (\$580m in 2020)
- Strong brand portfolio
- Whirlpool, KitchenAid, Maytag, Indesit, Hotpoint
- Economies of scale and cost position

Revenue Composition


## Key Business Drivers

- 3 primary purchasing factors:
- 1) New housing construction
- Supply-demand
- 2) Product replacement demand
- 3) Discretionary spending habits
- Other macro factors: GDP, CPI, PPI, trade policy


## Financial Analysis

- Fairly stagnant sales growth over the past few years, but with aforementioned business drivers, we forecast increased sales and EPS in-line with Wall Street consensus
- Per Whirlpool's Q3 2021 earnings, Whirlpool appears on track to meet and exceed 2021 expectations, with YTD sales of $\$ 16.17 \mathrm{bn}$ and diluted EPS of $\$ 23.47$ going into the holiday season
- We also predict steady growth in gross profit margin that tapers off, as Whirlpool is working to compress its operating expenses by making products more modular and using optimized manufacturing processes over the next few years
- While SG\&A growth seems relatively stagnant historically, we gradually increase our growth projections given Whirlpool's plans to steadily ramp up components like marketing

| INCOME STATEMENT | Historical Data |  |  |  |  | Projections |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Fiscal year | 2016A | 2017A | 2018A | 2019A | 2020A | 2021P | 2022P | 2023P |
| Net sales | 20,718 | 21,253 | 21,037 | 20,419 | 19,456 | 22,472 | 22,730 | 22,969 |
| Consensus |  |  |  |  |  | 22,584 | 22780 | 22481 |
| Cost of products sold | 17,026 | 17,651 | 17,500 | 16,886 | 15,606 | 17,696 | 18,127 | 18,375 |
| Gross Margin | 3,692 | 3,602 | 3,537 | 3,533 | 3,850 | 4,775 | 4,603 | 4,594 |
| Selling, general and administrative | 2,080 | 2,112 | 2,189 | 2,142 | 1,877 | 2,191 | 2,387 | 2,584 |
| Operating profit | 1,368 | 1,136 | 279 | 1,571 | 1,623 | 2,408 | 2,038 | 1,828 |
| Other (income) expense |  |  |  |  |  |  |  |  |
| Interest and sundry (income) expense | 93 | 87 | 108 | (168) | (21) | - | 102 | 103 |
| Interest expense | 161 | 162 | 192 | 187 | 189 | 225 | 227 | 230 |
| Earnings before income taxes | 1,114 | 887 | (21) | 1,552 | 1,455 | 2,183 | 1,708 | 1,495 |
| Income tax expense (benefit) | 186 | 550 | 138 | 354 | 384 | 535 | 419 | 366 |
| Net earnings | 928 | 337 | (159) | 1,198 | 1,071 | 1,648 | 1,290 | 1,129 |
| Less: Net earnings (loss) available to noncontrolling interests | 40 | (13) | 24 | 14 | (10) | - | - | - |
| Net earnings available to Whirlpool | 888 | 350 | (183) | 1,184 | 1,081 | 1,648 | 1,290 | 1,129 |
| Per share of common stock |  |  |  |  |  |  |  |  |
| Diluted net earnings available to Whirlpool | 11.50 | 4.70 | (2.72) | 18.44 | 17.08 | 27.63 | 22.81 | 20.70 |
| Consensus |  |  |  |  |  | 27.59 | 23.15 | 19.9 |

## Valuation

| Historical Price Ratios | High | Low |  | Median | Current |
| :--- | ---: | ---: | ---: | ---: | ---: |
| P/E | 18.74 | 3.01 | 11.49 | 7.92 |  |
| P/B | 3.96 | 0.85 | 2.66 | 2.68 |  |
| P/S | 0.84 | 0.2 | 0.58 | 0.62 |  |
| P/EBITDA | 11.32 | 2.35 | 6.35 | 4.42 |  |

Comparable Companies

| Comparable Companies | P/E | P/B |  | P/S | P/CF | EV/ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| WHR US |  | 7.92 | 2.68 | 0.62 | 5.73 | 5.36 |
| Peers |  |  |  |  |  |  |
| GE US (General Electric) |  | 62.92 | 3.19 | 1.58 | 26.38 | 12.58 |
| ELUXB SS (Electrolux) |  | 9.72 | 3.30 | 0.47 | 5.63 | 4.82 |
| 6752 JP (Panasonic) |  | 11.94 | 1.16 | 0.45 | 6.84 | 6.20 |
| Average |  | $\underline{28.19}$ | $\underline{2.55}$ | 0.83 | 12.95 | 7.87 |

## DCF

| Sensitivity Analysis - Implied Share Price |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| WACC |  | Perpetual Growth Rate |  |  |  |  |  |  |  |  |  |
|  |  |  | 2.00\% |  | 2.50\% |  | 3.00\% |  | 3.50\% |  | 4.00\% |
|  | 8.50\% | \$ | 304.15 | \$ | 318.24 | \$ | 334.88 | \$ | 354.86 | \$ | 379.27 |
|  | 9.00\% | \$ | 283.08 | \$ | 294.66 | \$ | 308.18 | \$ | 324.15 | \$ | 343.31 |
|  | 9.50\% | \$ | 264.81 | \$ | 274.45 | \$ | 285.56 | \$ | 298.53 | \$ | 313.86 |
|  | 10.00\% | \$ | 248.83 | \$ | 256.92 | \$ | 266.17 | \$ | 276.84 | \$ | 289.28 |
|  | 10.50\% | \$ | 234.72 | \$ | 241.58 | \$ | 249.34 | \$ | 258.22 | \$ | 268.46 |
|  | 11.00\% | \$ | 222.18 | \$ | 228.03 | \$ | 234.61 | \$ | 242.07 | \$ | 250.59 |

## Future Expectations

| Absolute Valuation | Current Price | Current <br> Multiple | Target <br> Multiple | Target / <br> Current | Target Price |
| :---: | :---: | :---: | :---: | :---: | :---: |
| P/E | \$232.18 | 7.92 | 9.25 | 1.17 | \$271.17 |
| P/B | \$232.18 | 2.68 | 3.25 | 1.21 | \$281.56 |
| $\mathrm{P} / \mathrm{S}$ | \$232.18 | 0.62 | 0.68 | 1.10 | \$254.65 |
| P/EBITDA | \$232.18 | 4.42 | 5.10 | 1.15 | \$267.90 |
|  | Equal Weighted Valuation |  |  |  | \$268.82 |

## Recommendation

## Growth Drivers

- Continued legacy of disruptive innovation; strong R\&D pipeline and repute; services consumer, commercial, and government markets; and digital integration
- Incredibly strong and market-leading brand portfolio with highly acquisitive history and entrances into new markets
- Economies of scale and continued focus on cost optimization
- Fundamental drivers like new housing construction, product replacement demand, and discretionary purchasing habits


## Risks

- Macroeconomic pressures like unfavorable monetary policy, inflation, and supply-chain woes
- Market share loss due to insufficient innovation
- International risk given highly globalized operations
- Concentration of sales (13\%) and receivables (14\%) with Lowe's
- Longer-term economic scarring of COVID-19 and its impact on household discretionary income
- Fire and other product risks to brand

| Current SIM <br> Weight | Current <br> S\&P Weight | Proposed <br> Weight | Current <br> Price | Target Price | Buy / Hold / <br> Sell | Expected <br> Return |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 193 bps | 3.6 bps | 100 bps | $\$ 232.18$ | $\$ 266.17$ | SELL | $14.64 \%$ |



## General Motors

## Company Overview

- Ticker: GM
- Sector: Consumer Discretionary
- Current Weight in S\&P500: 21.47 bps
- Current SIM weight: 482 bps
- Industry: Automotive
- Market Cap: \$86.531B
- Stock Price: \$59.60
- Shares Outstanding: 1,442B
- 52 Week High: $\$ 64.30$
- 52 Week Low: \$38.63
- One Year Return: 69.20\%
- Beta: 1.19
- Dividend Yield: 0\%
- P/E: 7.82


## Business Analysis

- General Motors
- Design, manufacture, and sell trucks, crossovers, cars, and automobile parts
- 4th largest automaker per vehicle production and 6th per market cap
- North American automotive sales represent 79\% of General Motors annual revenue
- Pivoting to complete electric vehicle fleet by 2035 and making strides to enter the autonomous vehicle market through its purchase of Cruise in 2016.
- Purchased Cruise for $\$ 1$ billion which now has a valuation of $\$ 30$ billion


## Sustained Competitive Edges

- Margin Expansion
- Gross margin \% range of $15-20 \%$ last 5 years
- Future operating margin \% expectations of 1214\% from 6-10\%
- OnStar Connectivity \& Data-Gathering
- Ultium Battery Technology
- Commercialization of Cruise

Revenue Composition


## Key Business Drivers

- Economic Conditions
- Consumer Demand
- Technological Innovation
- Governmental Regulation
- Other macro factors: GDP, CPI, Oil Prices, U-3, U-6, and Interests Rates


## Financial Analysis

- General Motors has seen declining or stagnant sales over the last 5 years as the company sold off unprofitable business pieces. The plan was to lower fixed costs and increase profitability through the sale of high-price trucks and SUVs.
- Wall Street consensus expects 2021 sales of $\$ 122.575 \mathrm{~B}$ and EPS of $\$ 6.27,2022$ sales of $\$ 147.097 \mathrm{~B}$ and EPS of $\$ 6.41$, and 2023 sales of $\$ 155.120$ and EPS of $\$ 6.90$. We predict gross margins to stay within the $15-20 \%$ range but operating margin to increase from the $6-10 \%$ range to the $12-14 \%$ range.
- We predict net income over the next three years to increase $34.51 \%$ in 2021, $9.07 \%$ in 2022, and $15.7 \%$ in 2023. Fast initial growth to make up for the stagnated growth during the pandemic as the company returns to operations as usual. Estimated long-term growth of $3 \%$ per year following.



## Valuation

| General Motors | High |  | Low |  | Median |
| :--- | :---: | ---: | ---: | ---: | ---: |
| Current |  |  |  |  |  |
| P/E | $\$$ | 18.67 | $\$$ | 6.09 | $\$ 11.90$ |
| $\$$ | $\$ .82$ |  |  |  |  |
| P/B | 1.84 | 1.35 | 1.63 | 1.57 |  |
| P/S | 0.70 | 0.52 | 0.61 | 0.65 |  |
| P/EBITDA | 27.66 | 20.59 | 23.62 | 6.31 |  |
| Relative to S\&P500 | High | Low | Median | Current |  |
| P/E | Lower | Lower | Lower | Lower |  |
| P/B | Lower | Lower | Lower | Lower |  |
| P/S | Lower | Lower | Lower | Lower |  |
| P/EBITDA | Higher | Higher | Higher | Lower |  |

## Comparable Companies

| Company |  | Price | Market Cap (\$B) |  | P/E |  | P/B |  | P/S |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| GM | S | 59.60 | S | 86,531 | S | 7.82 | S | 1.57 | S | 0.70 |
| Ford |  | 20.12 |  | 77,090 |  | 27.56 |  | 2.11 |  | 0.57 |
| Toyota |  | 176.32 |  | 247,660 |  | 9.66 |  | 1.17 |  | 0.95 |
| Honda |  | 29.35 |  | 51,640 |  | 6.09 |  | 0.63 |  | 0.40 |
| Average |  |  |  |  | s | 12.78 | S | 1.37 | S | 0.66 |

## DCF

| Sensitivity Analysis |  |  |  |  | Terminal Discount Rate |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\$$ | 70.85 | $12 \%$ | $12.50 \%$ | $13 \%$ | $13.50 \%$ | $14 \%$ |  |  |  |
|  | $2.8 \%$ | $\$$ | 77.24 | $\$$ | 73.21 | $\$$ | 69.57 | $\$$ |  |  |
| 66.27 | $\$$ | 63.27 |  |  |  |  |  |  |  |  |
| Terminal | $2.9 \%$ | 78.03 | 73.91 | 70.21 | 66.85 | 63.79 |  |  |  |  |
| GrowthRate | $3.0 \%$ | 78.83 | 74.63 | 70.85 | 67.43 | 64.33 |  |  |  |  |
|  | $3.1 \%$ | 79.66 | 75.37 | 71.52 | 68.03 | 64.87 |  |  |  |  |
|  | $3.2 \%$ | 80.50 | 76.12 | 72.19 | 68.64 | 65.42 |  |  |  |  |

## Future Expectations

| Company | Quarterly Revenue Growth(YOY) | Quarterly Earnings Growth(YOY) | Operating Margin | Forward Anrual DV Yield | Returm on Equity (TTM) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| GM | -24.50\% | -40.20\% | 9.52\% | N/A | 20.26\% |
| Ford | -4.80\% | -23.20\% | 1.67\% | 2.07\% | 8.15\% |
| Toyota | 11.40\% | 33.20\% | 10.94\% | 2.49\% | 13.60\% |
| Honda | -6.80\% | -30.80\% | 6.49\% | 3.42\% | 10.32\% |
| Source: Y ahoo Finance |  |  |  |  |  |

## Recommendation

## Growth Drivers

- General Motors's sheer size has been its downfall in the past. The company has spent years shedding unprofitable parts of the business and pivoting to the future of electric vehicles. Estimating $\$ 90$ billion annually from EV sales by 2030.
- Investment in autonomous-vehicles through Cruise gives GM a head start in this potential new industry. Recent partnerships/investment partners with Walmart and Microsoft give General Motors future customers and technology access needed to standardize the roll out of AVs. Estimated $\$ 50$ billion annual revenue by end of the decade.


## Risks

- General Motors's $\$ 87.3$ billion pension is funded by $\$ 12.4$ billion as of December 31st, 2020. Mandatory contributions over next 5 years total $\$ 366$ million. Total contribution could go up if interest rates decline.
- Continued supply-chain disruptions are expected to continue into 2022, which will cut future revenues. Many new cars being built must sit unfinished in warehouses waiting on computer chips.
- Internal combustion engine vehicles are facing increased scrutiny from ESG regulators, likely causing an increase in future production costs.

| Current SIM <br> Weight | Current <br> S\&P Weight | Proposed <br> Weight | Current <br> Price | Target Price | Buy / Hold / <br> Sell | Expected <br> Return |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 482 bps | 21.5 bps | 450 bps | $\$ 59.60$ | $\$ 70.85$ | SELL | $18.9 \%$ |



## TJX Companies

## Company Overview: TJX Companies

- Ticker: TJX
- Business Segments
- Marmaxx (60.25\%)
- HomeGoods (18.97\%)
- TJX Canada (8.82\%)
- TJX International (11.96\%)
- Sector:
- Current Weight in S\&P500: 0.21\%
- Current SIM weight (as of 10/31/21): 0.99\%
- Industry: Retail
- Market Cap: \$83.36 Billion
- Stock Price: \$68.80
- Shares Outstanding: 1214.70 Million
- 52 Week High:\$76.16
- 52 Week Low: \$59.12
- One Year Return: -22.96\%
- Beta: 0.96
- Dividend Yield: 1.151\%
- P/E: 33.91


## Business Analysis

Stock is currently undervalued because of COVID-19 pandemic related issues, such reduced brick-and-mortar shopping, and supply chain shortages (like labor shortages, factory shutdowns, etc.)

Some factors that will drive up the demand are increases in consumer confidence, a continued increase in spending of disposable income/increase in in-person shopping and global expansion

## Financial Analysis

Consensus revenue estimates are expected to grow, after a decrease in revenue in the year 2021, relating to the COVID-19 pandemic and fears of uncertainty.

| TJX |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | FY | FY | FY | FY | FY |
| Millions | $\mathbf{2 0 2 4 E}$ | $\mathbf{2 0 2 3 E}$ | $\mathbf{2 0 2 2 E}$ | $\mathbf{2 0 2 1}$ | $\mathbf{2 0 2 0}$ |
| Consensus | $54,110.00$ | $51,532.75$ | $48,222.10$ |  |  |
| Net Sales | $\mathbf{5 4 , 7 6 7 . 9 7}$ | $\mathbf{5 1 , 8 4 8 . 0 2}$ | $\mathbf{4 7 , 9 0 0 . 7 0}$ | $\mathbf{3 2 , 1 3 7 . 0 0}$ | $\mathbf{4 1 , 7 1 7 . 0 0}$ |

## Valuation

Price Target: \$79.71
Price appreciation of $15.86 \%$
TJX Companies' and the consumer discretionary market are trading at premium multiples compared to the S\&P500, and TJX Companies' multiple trades similarly to competitors.

## TJX Company

P/E 24.18
1.95
$P / B \quad 13.12$
P/CF $\quad 15.81$
P/EBITDA 19.35

## Recommendation

## We recommend a HOLD position on TJX stock.

TJX Companies' current stock price is slightly undervalued, but we would like to hold our position of 99 basis points, as there are risks relating to a decrease in brick-and-mortar shopping, supply chain delays and the COVID-19 pandemic. There are some potential upsides that may increase value like increased consumer confidence.


## Nike, Inc.

## Company Overview: Nike, Inc.

- Ticker: NKE
- Sector: Consumer Discretionary
- Current Weight in S\&P500: 0.54\%
- Current SIM weight: 0.00\%
- Industry: Shoe Manufacture
- Market Cap: \$216,097,020
- Stock Price: \$169.09
- Shares Outstanding: 1.278M
- 52 Week High: \$174.38
- 52 Week Low: $\$ 118.80$
- One Year Return: 19.08\%
- Beta: 0.90
- Dividend Yield: N/A
- P/E: 43.36


## Business Analysis

Stock is currently undervalued because of COVID-19 pandemic related issues, such supply chain shortages, like labor shortages, factory shutdowns, port delays, and container shortages

Some factors that will drive up the demand are increases in consumer confidence, a continued increase in spending of disposable income, an increase in online retail, and innovation and market growth that will raise the value of Nike, Inc.

## Financial Analysis

Consensus revenue estimates are expected to grow, after a decrease in revenue in the year 2020, relating to the COVID-19 pandemic and fears of uncertainty.

|  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| NIKE |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  | FY | FY | FY | FY | FY | FY |
| Millions | $\mathbf{2 0 2 4 E}$ | $\mathbf{2 0 2 3 E}$ | $\mathbf{2 0 2 2 E}$ | $\mathbf{2 0 2 1}$ | $\mathbf{2 0 2 0}$ | $\mathbf{2 0 1 9}$ |
| Consensus | $59,800.00$ | $54,200.00$ | $47,100.00$ |  |  |  |
| Revenue | $\mathbf{5 9 , 7 2 1 . 0 0}$ | $\mathbf{5 4 , 2 9 1 . 8 2}$ | $\mathbf{4 7 , 2 1 0 . 2 8}$ | $\mathbf{4 4 , 5 3 8 . 0 0}$ | $\mathbf{3 7 , 4 0 3 . 0 0}$ | $\mathbf{3 9 , 1 1 7 . 0 0}$ |

## Valuation

Price Target: \$277.31
Price appreciation of 64.00\%
Nike Inc.

Nike, Inc. and the consumer discretionary market are trading at premium multiples compared to the S\&P500, and Nike's multiple trades higher than most of its competitors.

## Recommendation

We recommend a BUY rating of Nike, Inc. stock
Nike's stock price is currently undervalued and faces risks of continued supply chain issues and delays that may hurt how Nike gets products to consumers. We think the benefits outweigh the risk because of continued advances into new markets (the athleisure market, expanding globally, and online growth, as well as their consistent high-quality name that has led them to be the 14th most valuable company in the world.

We would like to raise the $0.00 \%$ SIM weight to $1.01 \%, 101$ basis points


Final Recommendation

## Final Recommendation

|  | Current <br> SIM Weight | Current <br> S\&P <br> Weight | Proposed <br> Weight | Current <br> Price | Target <br> Price | Buy / Hold / <br> Sell | Expected <br> Return |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Amazon | 401 bps | 390 bps | 450 bps | $\$ 3,545.68$ | $\$ 4,500$ | BUY | $26.9 \%$ |
| Whirlpool | 193 bps | 3.6 bps | 100 bps | $\$ 232.18$ | $\$ 266.17$ | SELL | $14.64 \%$ |
| GM | 482 bps | 21.5 bps | 450 bps | $\$ 59.60$ | $\$ 70.85$ | SELL | $18.9 \%$ |
| TJX | 99 bps | 21 bps | 99 bps | $\$ 68.80$ | $\$ 79.71$ | HOLD | $15.86 \%$ |
| Nike | 0.00 bps | 54 bps | 101 bps | $\$ 169.09$ | $\$ 277.31$ | BUY | $64.00 \%$ |

"Trimming"


## Appendix

## Amazon DCF



## Amazon DCF

| NPV of Cash Flows | 580,542 | 25\% |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NPV of terminal value | 1,760,387 | 75\% |  |  |  |  |  |  | Terminal Value | 3,398,761 |
| Projected Equity Value | 2,340,929 | 100\% |  |  |  |  |  |  |  |  |
| Free Cash Flow Yield | 1.08\% |  |  |  |  |  |  |  | Free Cash Yield | 3.69\% |
|  |  |  |  |  |  |  |  |  |  |  |
| Current P/E | 62.2 | 51.6 | 36.3 |  |  |  |  |  | Terminal P/E | 28.5 |
| Projected P/E | 82.4 | 68.4 | 48.1 |  |  |  |  |  |  |  |
| Current EV/EBITDA | 28.3 | 23.5 | 17.7 |  |  |  |  |  | Terminal EV/EBITDA | 14.7 |
| Projected EV/EBITDA | 37.4 | 31.0 | 23.3 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Shares Outstanding | 506 |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Current Price | \$ 3,488.98 |  |  |  |  |  |  |  |  |  |
| Implied equity value/share | \$ 4,622.69 |  |  |  |  |  |  |  |  |  |
| Upside/(Downside) to DCF | 32.5\% |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Debt | 123,247 |  |  |  |  |  |  |  |  |  |
| Cash | 89,894 |  |  |  |  |  |  |  |  |  |
| Cash/share | 177.52 |  |  |  |  |  |  |  |  |  |

## Lululemon DCF

| NPV of Cash Flows | $11,042,189$ | $26 \%$ |  |
| :--- | ---: | ---: | ---: |
| NPV of terminal value | $32,211,220$ | $74 \%$ |  |
| Projected Equity Value | $43,253,409$ | $100 \%$ |  |
| Free Cash Flow Yield | $0.70 \%$ |  |  |
|  |  |  |  |
| Current P/E | 106.5 | 79.8 | 87.5 |
| Projected P/E | 89.4 | 67.0 | 73.4 |
| Current EV/EBITDA | 61.8 | 48.7 | 50.9 |
| Projected EV/EBITDA | 51.8 | 40.8 | 42.6 |
|  |  |  |  |
| Shares Outstanding | 129,800 |  |  |
|  |  |  |  |
| Current Price | 397.12 |  |  |
| Implied equity value/share | $\$$ | 333.23 |  |
| Upside/(Downside) to DCF | $\mathbf{- 1 6 . 1 \%}$ |  |  |
|  |  |  |  |
| Debt | 794,800 |  |  |
| Cash | $1,170,000$ |  |  |
| Cash/share | 9.01 |  |  |



## Whirlpool DCF

| Whirlpool Corp. (WHR): DCF |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Analyst: Aayush Bansal <br> 11/12/2021 <br> $\$$ mm except per share |  |  | Terminal Discount Rate $($ WACC $)=$ Terminal FCF Growth = |  |  | $\begin{array}{r} 10.0 \% \\ 3.0 \% \end{array}$ |  |  |  |  |  |
| Year | 2021E | 2022 E | 2023E | 2024E | 2025 E | 2026E | 2027E | 2028 E | 2029 E | 2030 E | 2031 E |
| Revenue | 22,472 | 22,730 | 22,969 | 23,221 | 23,477 | 23,759 | 24,044 | 24,404 | 24,892 | 25,515 | 26,280 |
| \% Growth |  | 1.15\% | 1.05\% | 1.1\% | \% | 1.2\% | 1.2\% | 1.5\% | 2.0\% | 2.5\% | 3.0\% |
| Operating Income | 2,408 | 2,038 | 1,828 | 1,858 | 1,878 | 1,901 | 1,923 | 1,952 | 1,991 | 2,041 | 2,102 |
| Operating Margin | 10.72\% | 8.97\% | 7.96\% | 8.0\%' | 8.0\% | 8.0\% | 8.0\% | 8.0\% | 8.0\% | 8.0\% | 8.0\% |
| Interest Expense (Income) | 225 | 227 | 230 | 232 | 235 | 238 | 240 | 244 | 249 | 255 | 263 |
| Interest \% of Sales | 1.0\% | 1.0\% | 1.0\% | 1.0\% | 1.0\% | 1.0\% | 1.0\% | 1.0\% | 1.0\% | 1.0\% | 1.0\% |
| Income Before Taxes | 2,183 | 1,708 | 1,495 | 1,625 | 1,643 | 1,663 | 1,683 | 1,708 | 1,742 | 1,786 | 1,840 |
| Taxes | 535 | 419 | 366 | 398 | 403 | 407 | 412 | 419 | 427 | 438 | 451 |
| Tax Rate | 24.5\% | 24.5\% | 24.5\% | 24.5\% | 24.5\% | 24.5\% | 24.5\% | 24.5\% | 24.5\% | 24.5\% | 24.5\% |
| Net Income | 1,648 | 1,290 | 1,129 | 1,227 | 1,241 | 1,256 | 1,271 | 1,290 | 1,316 | 1,348 | 1,389 |
| \% Growth |  | -21.8\% | -12.5\% | 8.7\% | 1.1\% | 1.2\% | 1.2\% | 1.5\% | 2.0\% | 2.5\% | \% |
| Add Depreciation/Amort | 640 | 648 | 655 | 662 | 669 | 677 | 649 | 659 | 622 | 638 | 657 |
| \% of Sales | 2.9\% | 2.9\% | 2.9\% | 2.9\% | 2.9\% | 2.9\% | 2.7\% ${ }^{\text {¢ }}$ | 2.7\% | 2.5\% | 2.5\% | 2.5\% |
| Plus/(minus) Changes WC | (662) | 669 | 53 | 53 | 54 | 54 | 55 | 56 | 57 | 58 | 60 |
| \% of Sales | -2.9\% | 2.9\% | 0.2\% | 0.2\% | 0.2\% | 0.2\% | 0.2\% | 0.2\% | 0.2\% | 0.2\% | 0.2\% |
| Subtract Cap Ex | 640 | 648 | 655 | 673 | 681 | 689 | 49 | 59 | 22 | 638 | 57 |
| Capex\% of sales | 2.9\% | 2.9\% | 2.9\% | 2.9\% | 2.9\% | 2.9\% | 2.7\% | 2.7\% | 2.5\% | 2.5\% | 2.5\% |
| Free Cash Flow | 987 | 1,959 | 1,182 | 1,269 | 1,283 | 1,298 | 1,326 | 1,346 | 1,373 | 1,407 | 1,449 |
| \% Growth |  | 98.5\% | -39.7\% | 7.4\% | 1.1\% | 1.2\% | 2.1\% | 1.5\% | 2.0\% | 2.5\% | 3.0\% |


| NPV of Cash Flows |  | 8,627 |
| :---: | :---: | :---: |
| NPV of terminal value |  | 8,221 |
| Projected Equity Value |  | 16,848 |
| Free Cash Flow Yield |  | 6.71\% |
| Current P/E |  | 8.9 |
| Projected P/E |  | 10.2 |
| Current Ev/EBITDA |  | 4.1 |
| Projected EV/EBITDA |  | 4.8 |
| Shares Outstanding |  | 63.3 |
| Current Price |  | \$232.18 |
| Implied equity value/share | \$ | 266.17 |
| Upside/(Downside) to DCF |  | 14.64\% |
| Debt |  | $814^{\top}$ |
| Cash |  | 2,924 |
| Cash/share |  | 46.19 |

## Home Depot DCF

| Home Depot (1) |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Analyst: Aayush Bansal 11/12/2021 |  |  | Terminal Discount Rate $($ WACC $)=$ Terminal FCF Growth = |  |  | $\begin{aligned} & 8.0 \%{ }^{\prime} \\ & 3.0 \% \end{aligned}$ | $\begin{aligned} & 0 \%{ }^{\circ} \\ & 0 \%{ }^{\prime} \end{aligned}$ |  |  |  |  |
| \$ mm except per share |  |  |  |  |  |  |  |  |  |  |  |
| Year | 2021 E | 2022E | 2023E | 2024E | 2025E |  | 2026E | 2027E | 2028E | 2029 E | 2030E | 2031 E |
| Revenue | 145,982 | 149,631 | 154,120 | 163,367 | 171,536 | 178,397 | 185,533 | 192,954 | 198,743 | 203,711 | 208,804 |
| \% Growth |  | 2.50\% | 3.00\% | 6.0\% | 5.0\% | 4.0\% | 4.0\% | 4.0\% | 3.0\% | 2.5\% | 2.5\% |
| Operating Income | 21,094 | 21,248 | 21,885 | 23,198 | 24,358 | 25,332 | 26,346 | 27,399 | 28,221 | 28,927 | 29,650 |
| Operating Margin | 14.45\% | 14.20\% | 14.20\% | 14.2\%' | 14.2\% | 14.2\% | 14.2\% | 14.2\% | 14.2\% | 14.2\% | 14.2\% |
| Interest Expense (Income) | 1,460 | 1,496 | 1,541 | 1,634 | 1,715 | 1,784 | 1,855 | 1,930 | 1,987 | 2,037 | 2,088 |
| Interest \% of Sales | 1.0\% | 1.0\% | 1.0\% | 1.0\% | 1.0\% | 1.0\% | 1.0\% | 1.0\% | 1.0\% | 1.0\% | 1.0\% |
| Income Before Taxes | 19,737 | 19,856 | 20,452 | 21,564 | 22,643 | 23,548 | 24,490 | 25,470 | 26,234 | 26,890 | 27,562 |
| Taxes | 4,835 | 4,865 | 5,011 | 5,283 | 5,547 | 5,769 | 6,000 | 6,240 | 6,427 | 6,588 | 6,753 |
| Tax Rate | 24.5\% | 24.5\% | 24.5\% | 24.5\% | 24.5\% | 24.5\% | 24.5\% | 24.5\% | 24.5\% | 24.5\% | 24.5\% |
| Net Income | 14,901 | 14,991 | 15,441 | 16,281 | 17,095 | 17,779 | 18,490 | 19,230 | 19,807 | 20,302 | 20,809 |
| \% Growth |  | 0.6\% | 3.0\% | 5.4\% | 5.0\% | 4.0\% | 4.0\% | 4.0\% | 3.0\% | 2.5\% | 2.5\% |
| Add Depreciation/Amort | 2,920 | 2,993 | 3,082 | 3,267 | 3,431 | 3,568 | 3,618 | 3,763 | 3,776 | 3,871 | 3,967 |
| \% of Sales | 2.0\% | 2.08 | 2.0\% | 2.0\% | 2.0\% | 2.0\% | 2.0\% | 2.0\% | 1.9\% | 1.9\% | 1.9\% |
| Plus/(minus) Changes wC | $(3,301)$ | 465 | (325) ${ }^{\prime}$ | $(345)$ | (362) ${ }^{\prime \prime}$ | (377) | (392) ${ }^{\prime}$ | (407) | $(420)$ | (430) ${ }^{\prime \prime}$ | (441) |
| \% of Sales | -2.3\% | 0.3\% | -0.2\% | -0.2\% | -0.2\% | -0.2\% | -0.2\% | -0.2\% | -0.2\% | -0.2\% | -0.2\% |
| Subtract Cap Ex | 2,920 | 2,993 | 3,082 ${ }^{\text {² }}$ | 3,267 ${ }^{\prime \prime}$ | 3,431 ${ }^{\text {² }}$ | 3,568 | 3,618 ${ }^{\text {² }}$ | 3,763 | 3,776 ${ }^{\prime \prime}$ | 3,871 ${ }^{7}$ | 3,967 |
| Capex \% of sales | 2.0\% | 2.0\% | 2.0\% | 2.0\% | 2.0\% | 2.0\% | 2.0\% | 2.0\% | 1.9\% | 1.9\% | 1.9\% |
| Free Cash Flow | 11,601 | 15,457 | 15,116 | 15,936 | 16,733 | 17,402 | 18,098 | 18,822 | 19,387 | 19,872 | 20,369 |
| \% Growth |  | 33.2\% | -2.2\% | 5.4\% | 5.0\% | 4.0\% | 4.0\% | 4.0\% | 3.0\% | 2.5\% | 2.5\% |


| NPV of Cash Flows |  | 116,302 | 37\% |
| :---: | :---: | :---: | :---: |
| NPV of terminal value |  | 194,352 | 63\% |
| Projected Equity Value |  | 310,654 | 100\% |
| Free Cash Flow Yield |  | 2.89\% |  |
| Current P/E |  | 27.0 | 26.8 |
| Projected P/E |  | 20.8 | 20.7 |
| Current EV/EbITDA |  | 18.0 | 17.8 |
| Projected EV/EBITDA |  | 14.2 | 14.0 |
| Shares Outstanding |  | 1,078.0 |  |
| Current Price |  | \$372.65 |  |
| Implied equity value/share | \$ | 288.18 |  |
| Upside/(Downside) to DCF |  | -22.7\% |  |
| Debt |  | 37,238 ${ }^{\text {- }}$ |  |
| Cash |  | 7,895 |  |

## GM DCF



## Ford DCF

| Ford Mbtor Company (F) |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Analyst John Aerni |  |  | Terminal Discount Rate $=$ |  |  | 10.0\% |  |  |  |  |  |
| 10/5/2021 |  |  |  |  |  | 3.0\% |  |  |  |  |  |
| (000s) |  |  |  |  |  |  |  |  |  |  |  |
|  | 2021 E | 2022 E | 2023 E | 2024E | 2025E | 2026E | 2027E | 2028E | 2029E | 2030 E | 2031 E |
| Revenue | 127,520 | 153,400 | 155,960 | 160,639 | 165,458 | 170,422 | 175,534 | 180,800 | 186,224 | 191,811 | 197,565 |
| \% Gown |  | 20.3\% | 1.7\% | 3.0\% | 3.0\% | 3.0\% | 3.0\% | 3.0\% | 3.0\% | 3.0\% | 3.0\% |
| Operating Income | 2,550 | 4,449 | 5,147 | 5,301 | 5,460 | 5,624 | 5,793 | 5,966 | 6,145 | 6,330 | 6,520 |
| Oprating Magin | 2.0\% | 29\% | 3.3\% | 3.3\% | 3.3\% | 3.3\% | 3.3\% | 3.3\% | 3.3\% | 3.3\% | 3.3\% |
| Interest Expense (Income) | 1,403 | 1,994 | 1.872 | 1.928 | 1,985 | 2.045 | 2,106 | 2.170 | 2,235 | 2,302 | 2,371 |
| Interet\% of Saks | 1.1\% | 1.3\% | 1.2\% | 1.2\% | 12 | 12\% | 12\% | 12\% | 12\% | 12\% | 12\% |
| Income Before Taxes | 3,953 | 6,443 | 7,018 | 3,373 | 3,475 | 3,579 | 3,686 | 3,797 | 3,911 | 4,028 | 4,149 |
| Taxes | 830 | 1,353 | 1,474 | 600 | 618 | 637 | 656 | 676 | 696 | 717 | 738 |
| Tax Rate | 21.0\% | 21.0\% | 21.0\% | 17.8\% | 178\% | 178\% | 178\% | 178\% | 178\% | 178\% | 178\% |
| Net Income | 3,123 | 5,090 | 5,544 | 2,773 | 2,856 | 2,942 | 3,030 | 3,121 | 3,215 | 3,311 | 3,410 |
| \% Gown |  | 630\% | 9.9\% | 50.0\% | 3.0\% | 3.0\% | 3.0\% | 3.0\% | 3.0\% | 3.0\% | 3.0\% |
| Add Depreciation/Amort | 7.141 | 8,437 | 8.422 | 8,674 | 8,935 | 9,203 | 9,479 | 9.763 | 10,056 | 10,358 | 10,669 |
| \% ofSaks | 5.8\% | 5.5\% | 5.4\% | 5.45 | 5.4\% | 5.4\% | 5.4\% | 5.4\% | 5.4\% |  |  |
| Plus/(minus) Changes WC | 883 | (9,712) | (211) | $(1,606)$ | $(1,655)$ | $(1,704)$ | $(1,755)$ | $(1,808)$ | $(1,862)$ | (1,918) | $(1,976)$ |
| \% ofSaks | 0.7\% | . $63 \%$ | - 1.18 | -1.0\% | -1.0\%, | -1.0\%, | -1.0\%, | -1.0\% | ${ }^{-1.0 \%}$. | -1.0\% | -1.0\% |
| Subtract Cap Ex | 6,248 | 7,517 | 7,642 | 7,871 | 8,107 ${ }^{\text { }}$ | 8,351 ${ }^{\text { }}$ | 8,601 ${ }^{\text { }}$ | 8,859 ${ }^{\prime}$ | 9,125 ${ }^{\text {* }}$ | 9,399 | 9,681 |
| Capex\% of sale | 4.9\% | 4.9\% | 4.9\% | 4.9\% | 4.9\% | 4.9\% | 4.9\% | 4.9\% | 4.9\% | 4.9\% | 4.9\% |
| Free Cash Flow | 4.898 | $(3,702)$ | 6,113 | 1,970 | 2.029 | 2,090 | 2,152 | 2,217 | 2,283 | 2,352 | 2,423 |
| \% Gownt |  | -175.6\% | 65.1\% | -87.8\% | 3.0\% | 3.0\% | 3.0\% | 3.0\% | 3.0\% | 3.0\% | 3.0\% |
| NPV of Cash Flows | 11,200 | 45\% |  |  |  |  |  |  |  |  |  |
| NPV of terminal value | 13.743 | 55\% |  |  |  |  |  |  | Ter | nal Value | 35,646 |
| Projected Equity Value | 24,943 | 100\% |  |  |  |  |  |  |  |  |  |
| Free Cash Flow Yield | 8.63\% |  |  |  |  |  |  |  | Free | ash Yield | 6.80\% |
| Current P/E | 18.2 | 11.2 | 10.2 |  |  |  |  |  |  | ninal P/E | 10.5 |
| Projected P/E | 9.0 | 8.2 | 9.0 |  |  |  |  |  |  |  |  |
| Current EVIEBITDA | 12.1 | 9.1 | 8.6 |  |  |  |  |  | Terminal | VIEBITDA | 5.6 |
| Projected EV/EBITDA | 9.8 | 9.6 | 9.5 |  |  |  |  |  |  |  |  |
| Shares Outstanding | 3,973 |  |  |  |  |  |  |  |  |  |  |
| Current Price | 14.29 |  |  |  |  |  |  |  |  |  |  |
| Implied equity value/share | 6.28 |  |  |  |  |  |  |  |  |  |  |
| Upside/(Downside) to DCF | 56.1\% |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Cash | 49,961 |  |  |  |  |  |  |  |  |  |  |
| Cash/share | 12.58 |  |  |  |  |  |  |  |  |  |  |

## TJX Companies DCF

| The TJX Companies, Inc. (TJX) |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Analyst: Julia Aepli |  |  |  | Terminal Discount Rate |  | 9.00\% |  |  |  |  |  |
| Date: 11/12/2021 |  |  |  | Terminal FCF Growth = |  | 4.00\% |  |  |  |  |  |
| Millions |  |  |  |  |  |  |  |  |  |  |  |
| Year | 2022E | 2023E | 2024E | 2025E | $2026 E$ | 2027 E | 2028E | 2029 E | 2030E | 2031 E | 2032 E |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Revenue \%Growth | 47,900.70 | 51,848.02 | 54,767.97 | 57,780.21 | 60,958.12 | 64,006.03 | 67,206.33 | 70,566.64 | 73,389.31 | 76,324.88 | 79,377.88 |
|  |  | 8.24\% | 5.63\% | 5.50\% | 5.50\% | 5.00\% | 5.00\% | 5.00\% | 4.00\% | 4.00\% | 4.00 |
| Operating Income Operating Margin | 1,389.12 | 3,525.67 | 3,943.29 | 4,044.61 | 4,267.07 | 4,480.42 | 5,376.51 | 5,645.33 | 5,871.14 | 6,105.99 | 6,350.23 |
|  | 2.90\% | 6.80\% | 7.20\% | 7.00\% | 7.00\% | 7.00\% | 8.00\% | 8.00\% | 8.00\% | 8.00\% | 8.00\% |
| Interest Expense (Income) Interest \% of Sales | 119.75 | 25.92 | 27.38 | 28.89 | 30.48 | 32.00 | 33.60 | 35.28 | 36.69 | 38.16 | 39.69 |
|  | 0.25\% | 0.05\% | 0.05\% | 0.05\% | 0.05\% | 0.05\% | 0.05\% | 0.05\% | 0.05\% | 0.05\% | 0.05\% |
| Income Before Taxes | 1,269.37 | 3,499.74 | 3,915.91 | 4,015.72 | 4,236.59 | 4,448.42 | 5,342.90 | 5,610.05 | 5,834.45 | 6,067.83 | 6,310.54 |
| Taxes Tax Rate | 323.69 | 892.43 | 998.56 | 1,024.01 | 1,080.33 | 1,134.35 | 1,362.44 | 1,430.56 | 1,487.78 | 1,547.30 | 1,609.19 |
|  | 25.50\% | 25.50\% | 25.50\% | 25.50\% | 25.50\% | 25.50\% | 25.50\% | 25.50\% | 25.50\% | 25.50\% | 25.50\% |
| Net Income | 945.68 | 2,607.31 | 2,917.35 | 2,991.71 | 3,156.26 | 3,314.07 | 3,980.46 | 4,179.49 | 4,346.67 | 4,520.53 | 4,701.35 |
| \%Growth |  | 175.71\% | 11.89\% | 2.55\% | 5.50\% | 5.00\% | 20.11\% | 5.00\% | 4.00\% | 4.00\% | 4.00\% |
| Add Depreciation/Amort | 1,197.52 | 1,036.96 | 1,095.36 | 1,155.60 | 1,219.16 | 1,280.12 | 1,344.13 | 1,411.33 | 1,467.79 | 1,526.50 | 1,587.56 |
|  | 2.50\% | 2.00\% | 2.00\% | 2.00\% | 2.00\% | 2.00\% | 2.00\% | 2.00\% | 2.00\% | 2.00\% | 2.00\% |
| Plus/(minus) Changes WC | 520.79 | (749.99) | (554.79) | (585.30) | (617.50) | (648.37) | (680.79) | (714.83) | (743.42) | (773.16) | 1.50 |
|  | 1.09\% | -1.45\% | -1.01\% | -1.01\% | -1.01\% | -1.01\% | -1.01\% | -1.01\% | -1.01\% | -1.01\% | -1.01\% |
| \% of Sales <br> Subract CapEx | 958.01 | 1,036.96 | 1,095.36 | 1,155.60 | 1,219.16 | 1,280.12 | 1,344.13 | 1,411.33 | 1,467.79 | 1,526.50 | 1,587.56 |
| CapEx\% of sales | 2.00\% | 2.00\% | 2.00\% | 2.00\% | 2.00\% | 2.00\% | 2.00\% | 2.00\% | 2.00\% | 2.00\% | 2.00\% |
| Free Cash Flow | 1,705.98 | 1,857.32 | 2,362.56 | 2,406.41 | 2,538.76 | 2,665.70 | 3,299.67 | 3,464.66 | 3,603.24 | 3,747.37 | 4,702.85 |
| \%Growth |  | 8.87\% | 27.20\% | 1.86\% | 5.50\% | 5.00\% | 23.78\% | 5.00\% | 4.00\% | 4.00\% | 25.50\% |
| NPV of Cash Flows | 18,464.77 | 30.89\% |  |  |  |  |  |  |  |  |  |
| NPV of terminal value | 41,319.95 | 69.11\% |  |  |  |  |  |  | Tern | minal Value | 97,819.35 |
| Projected Equity Value | 59,784.72 | 100.00\% |  |  |  |  |  |  |  |  |  |
| Free Cash Flow Yield | 3.31\% |  |  |  |  |  |  |  | Free | Cash Yield | 4.81\% |
| Current P/E | 54.56 | 19.79 | 17.69 |  |  |  |  |  |  | Torminal P/E | 20.81 |
| Projected P/E | 63.22 | 22.93 | 20.49 |  |  |  |  |  |  |  |  |
| Current EV/EBITDA | 21.55 | 12.22 | 11.07 |  |  |  |  |  | Terminal | EV/Ebitda | 12.85 |
| Projected EV/EBITDA | 24.72 | 14.01 | 12.69 |  |  |  |  |  |  |  |  |
| Shares Outstanding | 750.00 |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Current Price | \$ 68.80 |  |  |  |  |  |  |  |  |  |  |
| Implied equity value/share | \$ 79.71 |  |  |  |  |  |  |  |  |  |  |
| Upside/(Downside) to DCF | 15.86\% |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Debt | 11,259.00 |  |  |  |  |  |  |  |  |  |  |
| Cash | 7,106.00 |  |  |  |  |  |  |  |  |  |  |
| Cash/share | 9.47 |  |  |  |  |  |  |  |  |  |  |

## Nike, Inc. DCF

| Nike, Inc. (NKE) |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Analyst: Julia Aepli |  |  |  | Terminal Disco | ount Rate= | 8.00\% |  |  |  |  |  |
| 11/12/21 |  |  |  | Terminal FCF | Growth = | 4.50\% |  |  |  |  |  |
| Millions |  |  |  |  |  |  |  |  |  |  |  |
| Year | 2022E | 2023E | 2024E | $2025 E$ | 2026E | 2027E | 2028E | 2029 E | 2030E | 2031E | 2032E |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Revenue | 47,210.28 | 54,291.82 | 59,721.00 | 65,693.10 | 72,262.42 | 78,043.41 | 84,286.88 | 89,344.09 | 94,704.74 | 99,439.98 | 104,411.98 |
| \%Growth |  | 15.00\% | 10.00\% | 10.00\% | 10.00\% | 8.00\% | 8.00\% | 6.00\% | 6.00\% | 5.00\% | 5.00\% |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Operating Income | 11,153.43 | 12,500.69 | 13,750.76 | 15,125.84 | 16,638.42 | 17,969.49 | 19,407.05 | 20,995.86 | 22,255.61 | 23,368.39 | 24,536.81 |
| Operating Margin | 23.63\% | 23.03\% | 23.03\% | 23.03\% | 23.03\% | 23.03\% | 23.03\% | 23.50\% | 23.50\% | 23.50\% | 23.50\% |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Interest Expense (Income) | 118.03 | 108.58 | 89.58 | 98.54 | 108.39 | 117.07 | 126.43 | 134.02 | 142.06 | 149.16 | 156.62 |
| Interest\% of Sales | 0.25\% | 0.20\% | 0.15\% | 0.15\% | 0.15\% | 0.15\% | 0.15\% | 0.15\% | 0.15\% | 0.15\% | 0.15\% |
| Other (income) expense, net | 94.42 | 108.58 | 119.44 | 131.39 | 144.52 | 156.09 | 168.57 | 178.69 | 189.41 | 198.88 | 208.82 |
| Other (income)\% sales | 0.20\% | 0.20\% | 0.20\% | 0.20\% | 0.20\% | 0.20\% | 0.20\% | 0.20\% | 0.20\% | 0.20\% | 0.20\% |
| Income Before Taxes | 10,940.98 | 12,283.52 | 13,541.74 | 14,895.91 | 16,385.50 | 17,696.34 | 19,112.05 | 20,683.16 | 21,924.15 | 23,020.35 | 24,171.37 |
| Taxes | 1,531.74 | 1,719.69 | 1,895.84 | 2,085.43 | 2,293.97 | 2,477.49 | 2,675.69 | 2,895.64 | 3,069.38 | 3,222.85 | 3,383.99 |
| Tax Rate | 14.00\% | 14.00\% | 14.00\% | 14.00\% | 14.00\% | 14.00\% | 14.00\% | 14.00\% | 14.00\% | 14.00\% | 14.00\% |
| Net Income | 9,409.24 | 10,563.83 | 11,645.89 | 12,810.48 | 14,091.53 | 15,218.85 | 16,436.36 | 17,787.52 | 18,854.77 | 19,797.50 | 20,787.38 |
| \%Growth |  | 12.27\% | 10.24\% | 10.00\% | 10.00\% | 8.00\% | 8.00\% | 8.22\% | 6.00\% | 5.00\% | 5.00\% |
| Add Depreciation/Amort | 873.39 | 988.11 | 1,086.92 | 1,195.61 | 1,315.18 | 1,420.39 | 1,534.02 | 1,626.06 | 1,723.63 | 1,809.81 | 1,900.30 |
| \% of Sales | 1.85\% | 1.82\% | 1.82\% | 1.82\% | 1.82\% | 1.82\% | 1.82\% | 1.82\% | 1.82\% | 1.82\% | 1.82\% |
| Changes in Working Capital | (600.21) | $(2,212.98)$ | $(1,696.62)$ | ( $1,866.28$ ) | ( $2,052.91$ ) | $(2,217.14)$ | $(1,264.30)$ | ( $1,340.16$ ) | $(1,420.57)$ | $(1,491.60)$ | 1.50 |
| \%of Sales | -1.27\% | -4.08\% | -2.84\% | -2.84\% | -2.84\% | -2.84\% | -1.50\% | -1.50\% | -1.50\% | -1.50\% | -1.50\% |
| Subract Capex | 1416.31 | 1,628.75 | 1,791.63 | 1,970.79 | 2,167.87 | 2,341.30 | 2,528.61 | 2,680.32 ${ }^{\prime \prime}$ | 2,841.14 | 2,983.20 | 3,132.36 |
| CapEx\% of sales | 3.00\% | 3.00\% | 3.00\% | 3.00\% | 3.00\% | 3.00\% | 3.00\% | 3.00\% | 3.00\% | 3.00\% | 3.00\% |
| Free Cash Flow | 8,266.11 | 7,710.21 | 9,244.57 | 10,169.02 | 11,185.93 | 12,080.80 | 14,177.47 | 15,393.09 | 16,316.68 | 17,132.51 | 19,556.82 |
| \%Growth |  | -6.73\% | 19.90\% | 10.00\% | 10.00\% | 8.00\% | 17.36\% | 8.57\% | 6.00\% | 5.00\% | 14.15\% |
| NPV of Cash Flows | 83,941.73 | 23.69\% |  |  |  |  |  |  |  |  |  |
| NPV of terminal value | 270,463.65 | 76.31\% |  |  |  |  |  |  |  | minal Value | 583,910.73 |
| Projected Equity Value | 354,405.38 | 100.00\% |  |  |  |  |  |  |  |  |  |
| Free Cash Flow Yield | 3.83\% |  |  |  |  |  |  |  | Free | Cash Yield | 3.35\% |
| Current P/E | 22.97 | 20.46 | 18.56 |  |  |  |  |  |  | Terminal P/E | 28.09 |
| Projected P/E | 37.67 | 33.55 | 30.43 |  |  |  |  |  |  |  |  |
| Current EV/EBITDA | 17.63 | 15.72 | 14.29 |  |  |  |  |  | Terminal | EV/EBITDA | 21.93 |
| Projected EV/EBITDA | 29.13 | 25.97 | 23.61 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Shares Outstanding | 1,278.00 |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Current Price | \$ 169.09 |  |  |  |  |  |  |  |  |  |  |
| Implied equity value/share | \$ 277.31 |  |  |  |  |  |  |  |  |  |  |
| Upside/(Downside) to DCF | 64.00\% |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Debt | 9,413.00 |  |  |  |  |  |  |  |  |  |  |
| Cash | 13,476.00 |  |  |  |  |  |  |  |  |  |  |

