

Model Documentation for AhrvoScores



Universe: Zack's universe with companies less than or equal to \$100 million in market cap excluded

Ranking System: All companies are ranked (0-100) with 100 being best according to the following factors:

Growth Factors

Earnings

- **Basic**
 - EPS%ChgPYQ
 - EPS%ChgTTM
 - EPS5YCGr%
- **Acceleration**
 - EPS Acceleration - recent $f(x)$
 - EPS Acceleration - longer term $f(x)$

Sales

- **Basic**
 - Sales%ChgPYQ
 - Sales%ChgTTM
 - Sales5YCGr%
- **Acceleration**
 - Sales Acceleration - recent $f(x)$
 - Sales Acceleration - longer term $f(x)$
 - Short Interest $f(x)$
 - Recommendations
 - Changes in Recommendation $f(x)$
 - AvgRec

Momentum Factors

Relative Strength

- 3MoPctRet $f(x)$
- 3MoRet3MoAgo $f(x)$
- 3MoRet6MoAgo $f(x)$
- 3MoRet9MoAgo $f(x)$

Ind Rel Strength

- Pr4W%ChgInd
- Pr13W%ChgInd
- Pr26W%ChgInd

Valuation Factors

Based on Income Stream

- **Earnings**
 - PEExclXorTTM
 - ProjPECurFY
 - PEGLT
- **Other**
 - Pr2SalesTTM
 - Pr2FrCashFITTM

Based on Assets

- Pr2BookQ
- Pr2EVf(x)

Quality Factors

Margins

- OpMgn%TTM
- OpMgn%5YAvg

Turnover

- AstTurnTTM

Return on Capital

- ROI%TTM
- ROI%5YAvg
- ROE%TTM
- ROE%5YAvg

Finances

- CurRatioQ
- IntCovTTM
- DbtTot2CapQ
- Acid Cashf(x)

See Below For Factor Descriptions

Growth Factors

Earnings Revision

- EPS%ChgPYQ
EPS Percent Change, Most Recent Quarter vs. Quarter 1 Year Ago (%)
- EPS%ChgTTM
EPS Percent Change, TTM Over TTM (%)
- EPS%ChgTTM
Earnings Per Share, 5 Year Growth Rate (%)

Earnings Acceleration

- EPS Acceleration - recent $f(x)$
 $(\text{EPS}\% \text{ChgPYQ} - \text{EPS}\% \text{ChgTTM}) / \text{abs}(\text{EPS}\% \text{ChgTTM})$
- EPS Acceleration - longer term $f(x)$
 $(\text{EPS}\% \text{ChgTTM} - \text{EPS5YCGr}\%) / \text{abs}(\text{EPS5YCGr}\%)$

Sales Revision

- Sales%ChgPYQ
Sales Percent Change, Most Recent Quarter vs. Quarter 1 Year Ago (%)
- Sales%ChgTTM
Sales Percent Change, TTM Over TTM (%)
- Sales%ChgTTM
Sales Per Share, 5 Year Growth Rate (%)

Sales Acceleration

- Sales Acceleration - recent $f(x)$
 $(\text{Sales}\% \text{ChgPYQ} - \text{Sales}\% \text{ChgTTM}) / \text{abs}(\text{Sales}\% \text{ChgTTM})$
- Sales Acceleration - longer term $f(x)$
 $(\text{Sales}\% \text{ChgTTM} - \text{Sales5YCGr}\%) / \text{abs}(\text{Sales5YCGr}\%)$

Recommendations

- Change in Recommendations
AvgRec-AvgRec4WkAgo

- AvgRec
Average Recommendation on a 1-5 linear scale, where 1 is a strong buy, 5 a sell.
- Short Interest
Change in short interest (30,60,90) ranked by industry

Momentum Factors

Relative Strength

- 3MoPctRet
Close(0)/Close(60)
- 3MoRet3MoAgo
Close(60)/Close(120)
- 3MoRet6MoAgo
Close(120)/Close(180)
- 3MoRet9MoAgo
Close(180)/Close(240)

Industry Strength

- Pr4W%ChgInd
4 week price percent change industry %
- Pr13w%ChgInd
13 week price percent change industry %
- Pr26w%ChgInd
26 week price percent change industry %

Valuation Factors

Based on Income Stream

- PEExclXorTTM
Price to Earnings Ratio, Excluding Extraordinary Items, TTM
- ProjPECurFY
Current Fiscal Year Projected P/E Ratio
- PEGLT
Projected Price/Earnings to Long Term Growth Rate
- Pr2SalesTTM
Price to Sales Ratio, TTM

- Pr2FrCashFITTM
Price to Free Cash Flow Per Share Ratio, TTM

Based on Assets

- Pr2BookQ
Price to Book Ratio, Quarterly
- Pr2EV
Price to Enterprise Value, TTM

Quality/Profitability Factors

Margins

- OpMgn%TTM
Operating Margin, TTM
- OpMgn%5YAvg
Operating Margin, 5 Year Average (%)

Turnover

- AstTurnTTM
Asset Turnover, TTM

Return on Capital

- ROI%TTM
ROI, TTM
- ROI%YAvg
ROI, 5 Year Average (%)
- ROE%TTM
ROE, TTM
- ROE%5YAvg
ROE, 5 Year Average (%)

Financial Stability

- CurRatioQ
Ratio of current assets to liabilities
- IntCovTTM
Interest coverage, TTM
- DbtTot2Cap
Debt divided by total capital
- Acid Cash

Rank of TTM chg in net cash + net acquisitions/divestitures -
net equity financing