Group Selection

Priced as of August 7, 2018

Note: Group tickers incorporate hyperlinks to decile charts, and then a link to our Toolkit of the group members.

See back pages for user guide and disclaimer.
Sources for all charts: BMO Capital Markets
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**Sector Relative Strength Profiles**

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<tbody>
<tr>
<td>Energy</td>
<td>52% / 57% / 60%</td>
<td>/</td>
<td>-2% / 3% / 7%</td>
</tr>
<tr>
<td>Materials</td>
<td>34% / 40% / 37%</td>
<td>/</td>
<td>-16% / -9% / -1%</td>
</tr>
<tr>
<td>Industrials</td>
<td>37% / 43% / 43%</td>
<td>/</td>
<td>-7% / 1% / 11%</td>
</tr>
<tr>
<td>CMR Disc</td>
<td>41% / 46% / 45%</td>
<td>/</td>
<td>-16% / -10% / 0%</td>
</tr>
<tr>
<td>CMR Stap</td>
<td>39% / 43% / 43%</td>
<td>/</td>
<td>-14% / -6% / 7%</td>
</tr>
<tr>
<td>Hlth Care</td>
<td>55% / 60% / 59%</td>
<td>/</td>
<td>-8% / -2% / 2%</td>
</tr>
<tr>
<td>Financials</td>
<td>38% / 47% / 42%</td>
<td>/</td>
<td>-15% / -6% / 10%</td>
</tr>
<tr>
<td>Info Tech</td>
<td>52% / 58% / 58%</td>
<td>/</td>
<td>-13% / -6% / -1%</td>
</tr>
<tr>
<td>Telecom</td>
<td>18% / 32% / 26%</td>
<td>/</td>
<td>0% / 5% / 20%</td>
</tr>
<tr>
<td>Utilities</td>
<td>38% / 50% / 46%</td>
<td>/</td>
<td>-8% / -4% / 5%</td>
</tr>
<tr>
<td>Real Estate</td>
<td>52% / 60% / 54%</td>
<td>/</td>
<td>-12% / -5% / 9%</td>
</tr>
</tbody>
</table>

*Three terms define the relative performance Z-Score rating versus the markets (US = S&P 500; GBL = MSCI AC World; CDA = S&P/TSX Composite)*

(a) % Outperforming - what percentage of sector members is outperforming the market,
(b) Reward/Risk - how consistent is the median relative strength performance of the sector membership (-ranking),
(c) Trend Psn - what is the net percentage of the sector members which are breaking above/below relative strength channels.

The strength z-Score is weighted 60% towards the trend parameters (% outperforming and reward/risk ratios) and 40% towards the trend positions (reversals of trends). Gridlines are placed at 0.5 increments.

See Help Pages for further details
Industrials

Trucking
27 stocks; $112bn

BldPrdcts
45 stocks; $288bn

Sec&Alm
7 stocks; $47bn

AirFrght
21 stocks; $293bn

Ind Mach
128 stocks; $745bn

TrdgDist
58 stocks; $361bn

Marine
15 stocks; $55bn

EnviroServ
28 stocks; $148bn

RsrcCslt
29 stocks; $259bn

Aero&Def
56 stocks; $1062bn

AirFrght
21 stocks; $293bn

Ind Mach
128 stocks; $745bn

DvSpSrv
24 stocks; $116bn

EnviroServ
28 stocks; $148bn

RsrcCslt
29 stocks; $259bn

Aero&Def
56 stocks; $1062bn

TrdgDist
58 stocks; $361bn

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Marine
15 stocks; $55bn

HREmpl
25 stocks; $138bn

TrdgDist
58 stocks; $361bn

Marine
15 stocks; $55bn

HREmpl
25 stocks; $138bn
Momentum

Strength

MngHCare
12 stocks; $252bn

HCareTec
19 stocks; $76bn

Pharma
111 stocks; $2653bn

HCService
29 stocks; $281bn

HCareTec
19 stocks; $76bn

HCService
29 stocks; $281bn

HCSupplís
27 stocks; $167bn

HCEquip
29 stocks; $1046bn

Biotech
79 stocks; $1096bn

HCEquip
29 stocks; $1046bn

Biotech
79 stocks; $1096bn

HCDistrib
19 stocks; $113bn

HCSupplís
27 stocks; $167bn

HCEquip
29 stocks; $1046bn

Biotech
79 stocks; $1096bn

HCEquip
29 stocks; $1046bn

Biotech
79 stocks; $1096bn

HCDistrib
19 stocks; $113bn

HCFacility
29 stocks; $144bn

HCSupplís
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HCEquip
29 stocks; $1046bn

Biotech
79 stocks; $1096bn

HCEquip
29 stocks; $1046bn

Biotech
79 stocks; $1096bn

HCDistrib
19 stocks; $113bn

HCFacility
29 stocks; $144bn

LfSciSrv
31 stocks; $374bn

HCDistrib
19 stocks; $113bn

HCFacility
29 stocks; $144bn

LfSciSrv
31 stocks; $374bn
**Group Strength**
Our Global Group analysis is based on bottom-up equity relative strength analysis as opposed to industry group (index) relative strength analysis.

**Strength Decile Defined By**
1. What percentage of a group's members are outperforming
2. How consistent that outperformance is
3. How the members are positioned (above/below) vs. their trend channels.

**Momentum Decile**
Rate of change of strength (change in 5-day moving average)

**The Underlying Equity Relative Strength Analysis**
Each day, for every equity we cover, our relative strength system assesses the best fit trend from a spectrum which covers a minimum trend duration of six months, and a maximum of 4-years. The "best fit" is the trend which maximizes duration, and minimizes deviation from the trend. Our process is flexible, thorough, and because it is run daily, timely.

**The Dataset:**
- Over 5,700 securities.
- Groups have a:
  ...Median depth of 28
  ...Average depth of 36

**Heat Map Colour and Symbol Guide**
- Strength is highlighted by the background of the group title
  - Bright green = best (1st decile) transitions towards...
  - Bright red = worst (10th decile)
- Momentum is highlighted in the border of the group title
  - Colour map for momentum is the same as strength
- Symbols to the right of the group ticker show where a group moved from in the previous session. Below the group symbol we highlight the number and total market capitalization of the members in a group.
  Clicking on the group, which brings up the chart via a hyperlink, will help to clarify the moves.
Our Goals:
- To buy outperforming stocks in favoured groups
- To avoid underperforming stocks in unfavoured groups
- To be alerted of and act on the changes

#1 Rule of Momentum: You can use it only if it exists

- In stable/trending markets, one can buy stocks with high strength and momentum and hold them as long as momentum does not turn negative (trend following).

- In very rotational markets (e.g., where credit, currency, commodity conditions are choppy/changing):
  - Buying high strength and high momentum may be dangerous (buying yesterday’s winners).
  - One is better off buying stocks with moderate strength and high momentum (bottom fishing).
User Guide 3 - Buy/Hold/Sell

Buy
- Groups with high strength and high positive momentum (top left) - “In Favour”
- Groups with moderate strength and high positive momentum - “Transitioning to Positive”
- Groups with mediocre strength and high positive momentum - “Gaining Favour”

Buy/Hold
- Groups with high strength and neutral momentum (middle left) - “Maintaining Favour”

Sell
- Groups with low strength and high negative momentum (bottom right) - “Out of Favour”
- Groups with moderately negative strength and high negative momentum - “Transitioning to Negative”
- Groups with mediocre strength and high negative momentum - “Losing Favour”
Each group is hyperlinked to a chart that shows the relative strength decile as a function of time, and the moving average (momentum).

Each chart is hyperlinked to the group membership, in our RS Filter Toolkit.
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<tr>
<td>Buy</td>
<td>Outperform</td>
<td>43.2%</td>
<td>22.8%</td>
<td>57.4%</td>
<td>44.1%</td>
<td>57.0%</td>
<td>52.8%</td>
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<tr>
<td>Hold</td>
<td>Market Perform</td>
<td>53.2%</td>
<td>13.1%</td>
<td>40.6%</td>
<td>52.6%</td>
<td>41.1%</td>
<td>41.6%</td>
</tr>
<tr>
<td>Sell</td>
<td>Underperform</td>
<td>3.7%</td>
<td>9.5%</td>
<td>2.0%</td>
<td>3.2%</td>
<td>1.6%</td>
<td>5.5%</td>
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* Reflects rating distribution of all companies covered by BMO Capital Markets Corp. equity research analysts.
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Und = Underperform - Forecast to underperform the analyst's coverage universe on a total return basis;
(S) = Speculative investment;
Spd = Suspended - Coverage and rating suspended until coverage is reinstated;
NR = No Rated - No rating at this time; and
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(January 2010 - April 2013)

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