Group Selection

Priced as of July 31, 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 View**

### Sector Relative Strength Profiles*

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<tr>
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<tbody>
<tr>
<td>Energy</td>
<td>51% / 56% / 58%</td>
<td>/ / /</td>
<td>4% / 5% / 1%</td>
</tr>
<tr>
<td>Materials</td>
<td>36% / 41% / 41%</td>
<td>/ / /</td>
<td>-2% / 0% / -7%</td>
</tr>
<tr>
<td>Industrials</td>
<td>37% / 43% / 44%</td>
<td>/ / /</td>
<td>5% / 7% / 2%</td>
</tr>
<tr>
<td>CMR Disc</td>
<td>43% / 47% / 46%</td>
<td>/ / /</td>
<td>-10% / -8% / -13%</td>
</tr>
<tr>
<td>CMR Stap</td>
<td>41% / 45% / 46%</td>
<td>/ / /</td>
<td>-2% / -4% / -7%</td>
</tr>
<tr>
<td>Hlth Care</td>
<td>55% / 60% / 59%</td>
<td>/ / /</td>
<td>-6% / -2% / -5%</td>
</tr>
<tr>
<td>Financials</td>
<td>40% / 48% / 44%</td>
<td>/ / /</td>
<td>-4% / -1% / -4%</td>
</tr>
<tr>
<td>Info Tech</td>
<td>53% / 57% / 60%</td>
<td>/ / /</td>
<td>-19% / -17% / -19%</td>
</tr>
<tr>
<td>Telecom</td>
<td>19% / 30% / 31%</td>
<td>/ / /</td>
<td>5% / 6% / 5%</td>
</tr>
<tr>
<td>Utilities</td>
<td>36% / 48% / 47%</td>
<td>/ / /</td>
<td>2% / 0% / -2%</td>
</tr>
<tr>
<td>Real Estate</td>
<td>52% / 58% / 56%</td>
<td>/ / /</td>
<td>-1% / 0% / -2%</td>
</tr>
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</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.
**Momentum**

**Strength**

- **Int O&G**
  - 30 stocks: $1920bn
- **OG RfMkt**
  - 43 stocks: $564bn

**Energy**

- **OG Drill**
  - 14 stocks: $33bn
- **OG Equip**
  - 60 stocks: $300bn

- **OG E&P**
  - 114 stocks: $957bn
- **OG StTr**
  - 84 stocks: $699bn

**Coal&Uran**

- 24 stocks: $84bn
Health Care

Momentum

Strength

July 31, 2018

Mark Steele (416) 359-4641

HCSupplis
27 stocks; $183bn

Pharma
111 stocks; $263bn

HCFacility
29 stocks; $143bn

LfSciSrv
31 stocks; $366bn

HCEquip
77 stocks; $104bn

HCDistrib
19 stocks; $114bn

MngHCare
12 stocks; $51bn

HCareTec
19 stocks; $74bn

HCService
29 stocks; $27bn

Biotech
130 stocks; $108bn

111 stocks; $263bn

77 stocks; $104bn

19 stocks; $114bn

12 stocks; $51bn

19 stocks; $74bn

29 stocks; $27bn

130 stocks; $108bn
Information Technology

July 31, 2018

Mark Steele (416) 359-4641

ElecInstr 43 stocks; $252bn
ElecComp 36 stocks; $294bn
ITConsult 50 stocks; $746bn
TechDist 13 stocks; $47bn
ApplicSwr 68 stocks; $526bn
DataProc 46 stocks; $106bn
HmEntSwr 14 stocks; $217bn
InetSftSrv 99 stocks; $226bn
SystmSwr 34 stocks; $122bn
HdwrSt&P 42 stocks; $150bn
Semi 78 stocks; $1394bn
ComEquip 41 stocks; $395bn
SemiEqp 45 stocks; $316bn
EMS 18 stocks; $138bn

Momentum

Strength
<table>
<thead>
<tr>
<th>Utilities</th>
<th>Momentum</th>
<th>Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>ElecUtil</td>
<td>89 stocks; $1165bn</td>
<td></td>
</tr>
<tr>
<td>GasUtil</td>
<td>36 stocks; $250bn</td>
<td></td>
</tr>
<tr>
<td>IPPTrad</td>
<td>24 stocks; $116bn</td>
<td></td>
</tr>
<tr>
<td>MultiUtil</td>
<td>34 stocks; $459bn</td>
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</tr>
<tr>
<td>WaterUtil</td>
<td>22 stocks; $83bn</td>
<td></td>
</tr>
<tr>
<td>RenewElec</td>
<td>20 stocks; $56bn</td>
<td></td>
</tr>
<tr>
<td>Momentum</td>
<td>Strength</td>
<td></td>
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<tr>
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</tr>
<tr>
<td>ResidREIT</td>
<td>RestSrv</td>
<td></td>
</tr>
<tr>
<td>27 stocks; $162bn</td>
<td>12 stocks; $43bn</td>
<td></td>
</tr>
<tr>
<td>IndusREIT</td>
<td>RestOpCo</td>
<td></td>
</tr>
<tr>
<td>23 stocks; $119bn</td>
<td>38 stocks; $243bn</td>
<td></td>
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<tr>
<td>HCareREIT</td>
<td>RetailREIT</td>
<td></td>
</tr>
<tr>
<td>17 stocks; $96bn</td>
<td>50 stocks; $289bn</td>
<td></td>
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<tr>
<td>SpecREIT</td>
<td>OfficeREIT</td>
<td></td>
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<tr>
<td>33 stocks; $156bn</td>
<td>34 stocks; $162bn</td>
<td></td>
</tr>
<tr>
<td>OfficeREIT</td>
<td>DiversREIT</td>
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<tr>
<td>37 stocks; $156bn</td>
<td></td>
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<tr>
<td>HotelREIT</td>
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<tr>
<td>10 stocks; $55bn</td>
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User Guide 1 - Definitions & Dataset

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 are members 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).
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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</thead>
<tbody>
<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>
</tr>
<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>
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<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>
</tr>
</tbody>
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* Reflects rating distribution of all companies covered by BMO Capital Markets Corp. equity research analysts.
** Reflects rating distribution of all companies from which BMO Capital Markets Corp. has received compensation for Investment Banking services as percentage within ratings category.
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Und = Underperform - Forecast to underperform the analyst’s coverage universe on a total return basis;
(S) = Speculative investment;
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(January 2010 - April 2013)

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