Group Selection

Priced as of March 26, 2019

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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*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 (up / down 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.
### Energy

**Momentum**

<table>
<thead>
<tr>
<th>Sector</th>
<th>Stocks</th>
<th>Market Value ($bn)</th>
</tr>
</thead>
<tbody>
<tr>
<td>OG StTr</td>
<td>57</td>
<td>635</td>
</tr>
<tr>
<td>OG E&amp;P</td>
<td>59</td>
<td>753</td>
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<tr>
<td>OG Drill</td>
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<td>OG Equip</td>
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<td>213</td>
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<tr>
<td>OG RfMkt</td>
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<tr>
<td>Int O&amp;G</td>
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<td>1828</td>
</tr>
<tr>
<td>Coal&amp;Uran</td>
<td>21</td>
<td>84</td>
</tr>
</tbody>
</table>

**OG StTr**

- Market Value: $635bn

**OG E&P**

- Market Value: $753bn

**OG Drill**

- Market Value: $25bn

**OG Equip**

- Market Value: $213bn

**OG RfMkt**

- Market Value: $497bn

**Int O&G**

- Market Value: $1828bn

**Coal&Uran**

- Market Value: $84bn
<table>
<thead>
<tr>
<th>Material</th>
<th>Strength</th>
<th>Momentum</th>
<th>Stocks</th>
<th>Market Cap</th>
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<tr>
<td>MtGlsCnt</td>
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<td>←</td>
<td>14</td>
<td>$69bn</td>
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<tr>
<td>PrecMet</td>
<td></td>
<td></td>
<td>16</td>
<td>$49bn</td>
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<tr>
<td>IndusGas</td>
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<td></td>
<td>7</td>
<td>$202bn</td>
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<tr>
<td>Silver</td>
<td></td>
<td></td>
<td>10</td>
<td>$21bn</td>
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<tr>
<td>Gold</td>
<td>↓</td>
<td>↑</td>
<td>86</td>
<td>$214bn</td>
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<tr>
<td>Copper</td>
<td></td>
<td></td>
<td>14</td>
<td>$91bn</td>
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<tr>
<td>PaperPkg</td>
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<tr>
<td>DvrsMng</td>
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<td>52</td>
<td>$402bn</td>
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<tr>
<td>Alumin</td>
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<td>$35bn</td>
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<tr>
<td>CstrMat</td>
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<td>31</td>
<td>$231bn</td>
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<tr>
<td>ComdChm</td>
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<tr>
<td>PapProd</td>
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<tr>
<td>DiversChm</td>
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<td>21</td>
<td>$308bn</td>
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<td>FrstPrd</td>
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<td>Steel</td>
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<td>50</td>
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<td>SpecChm</td>
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<td></td>
<td>69</td>
<td>$550bn</td>
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<tr>
<td>Fert&amp;Ag</td>
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<td>29</td>
<td>$141bn</td>
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</tbody>
</table>
Industrials

March 26, 2019

Mark Steele (416) 359-4641

DvSpSvc
22 stocks; $108bn

MarineSrv
15 stocks; $56bn

ElcCmpEq
45 stocks; $381bn

Hwy&Rail
14 stocks; $87bn

IndCongl
19 stocks; $858bn

BldPrdcts
45 stocks; $247bn

HRempl
24 stocks; $124bn

Ag&Farm
11 stocks; $98bn

CmclPrt
10 stocks; $22bn

TrdgDist
38 stocks; $320bn

HwyElcEq
17 stocks; $100bn

RsrcCslt
26 stocks; $278bn

Airline
34 stocks; $250bn

HvyElcEq
17 stocks; $100bn

OffceServ
9 stocks; $37bn

AirFrght
24 stocks; $270bn

Railroads
28 stocks; $582bn

Sec&Alm
7 stocks; $44bn

Marine
44 stocks; $47bn

EnvironSrv
27 stocks; $161bn

Cnslng
17 stocks; $161bn

Cell&Eng
71 stocks; $387bn

AirprtSrv
20 stocks; $161bn

Aero&Def
52 stocks; $990bn

Trucking
25 stocks; $102bn

Cns&Eng
71 stocks; $387bn
Utilities

March 26, 2019

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MultiUtil
34 stocks; $487bn

ElecUtil
86 stocks; $1252bn

WaterUtil
23 stocks; $35bn

IPPTrad
25 stocks; $145bn

RenewElec
22 stocks; $125bn

GasUtil
15 stocks; $255bn

GasUtil
25 stocks; $255bn

Strength

Momentum
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 they 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).
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”
User Guide 4 - Hyperlinks To Decile Charts & Stock Selection

- 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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<td>22.8%</td>
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<td>13.1%</td>
<td>40.6%</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>
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** 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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