Group Selection

Priced as of November 7, 2017

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 ( / 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
Strength Changes Last Session

- DvSpSrv ➔ RestDvAct ➔ DiversREIT ➔ OfficeREIT ➔ OthrDivFS
- AutoMfg ➔ SpecialFin ➔ OG Drill ➔ OG StTr ➔ Sec&Alm
- RsrcCslt ➔ DrugRetail ➔ HotelREIT ➔ LeisFcil ➔ DiversBnk
- DvSpSrv ➔ Marine ➔ ResidREIT ➔ Gold ➔ RetailREIT
- AutoMfg ➔ SpecialFin ➔ DiversREIT ➔ OG Drill ➔ OG StTr
- SpCmSrv ➔ DrugRetail ➔ HotelREIT ➔ LeisFcil ➔ DiversBnk
- DvSpSrv ➔ Marine ➔ ResidREIT ➔ Gold ➔ RetailREIT
- DvSpSrv ➔ Marine ➔ ResidREIT ➔ Gold ➔ RetailREIT

Momentum

- HotelREIT ➔ OfficeREIT ➔ OthrDivFS
- AutoMfg ➔ SpecialFin ➔ OthRDivFS
- RsrcCslt ➔ DrugRetail ➔ ResidREIT
- DvSpSrv ➔ DiversREIT ➔ OG Drill ➔ OG StTr

November 7, 2017

Mark Steele (416) 359-4641
November 7, 2017

**Materials**

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**ComdChm**
- 39 stocks; $366bn

**SpecChm**
- 64 stocks; $550bn

**Gold**
- 61 stocks; $179bn

**Copper**
- 14 stocks; $105bn

**DvrsMng**
- 45 stocks; $422bn

**Fert&Ag**
- 32 stocks; $200bn

**PrecMet**
- 21 stocks; $53bn

**PapProd**
- 26 stocks; $106bn

**FrstPrd**
- 12 stocks; $30bn

**Steel**
- 58 stocks; $405bn

**Silver**
- 3 stocks; $20bn

**DiversChm**
- 19 stocks; $465bn

**IndusGas**
- 8 stocks; $156bn

**MtGlsCnt**
- 14 stocks; $62bn

**Alumin**
- 11 stocks; $63bn

**PaperPkg**
- 17 stocks; $125bn

**CstrMat**
- 27 stocks; $257bn
Momentum

Strength

November 7, 2017

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Utilities

GasUtil
33 stocks; $209bn

WaterUtil
24 stocks; $88bn

MultiUtil
35 stocks; $493bn

IPPTrad
24 stocks; $106bn

ElecUtil
90 stocks; $1,193bn

RenewElec
23 stocks; $57bn
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 groups 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).
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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<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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<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>
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(S) = Speculative investment;
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