Group Selection

Priced as of March 6, 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 ( / 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
March 6, 2019

**Materials**

- **Momentum**
  - IndusGas: 7 stocks, $108bn
  - Copper: 14 stocks, $90bn
  - MtGlsCnt: 15 stocks, $68bn
  - Gold: 15 stocks, $190bn
  - PrecMet: 29 stocks, $146bn
  - Fert&Ag: 29 stocks, $146bn
  - Silver: 10 stocks, $19bn
  - Alumin: 10 stocks, $35bn
  - DvrsMng: 52 stocks, $404bn
  - PapProd: 24 stocks, $102bn

- **Strength**
  - SpecChm: 68 stocks, $533bn
  - Steel: 59 stocks, $380bn
  - PaperPkg: 17 stocks, $108bn
  - CstrMat: 31 stocks, $237bn
  - ComdChm: 44 stocks, $381bn
  - FrstPrd: 11 stocks, $22bn
  - DiversChm: 21 stocks, $318bn
  - MtGlsCnt: 15 stocks, $68bn
  - Alumin: 10 stocks, $35bn
  - DvrsMng: 52 stocks, $404bn
  - PapProd: 24 stocks, $102bn
  - Silver: 10 stocks, $19bn
March 6, 2019

**Industrials**

- **Momentum**
  - RsrcCslt (26 stocks; $272bn)
  - HvyElcEq (16 stocks; $85bn)
  - EnviroServ (27 stocks; $157bn)
  - AirprtSrv (19 stocks; $144bn)
  - Cns&Eng (68 stocks; $337bn)
  - DvSpSrv (23 stocks; $108bn)
  - HREmpl (24 stocks; $125bn)
  - Hwy&Rail (14 stocks; $155bn)
  - Marine (14 stocks; $44bn)
  - MarineSrv (15 stocks; $57bn)
  - IndCongl (19 stocks; $95bn)
  - Airline (7 stocks; $45bn)
  - Sec&Alm (45 stocks; $246bn)
  - BldPrdcts (45 stocks; $246bn)
  - ElcCmpEq (43 stocks; $345bn)
  - CmclPrt (11 stocks; $23bn)
  - Aero&Def (52 stocks; $1028bn)
  - Trucking (26 stocks; $105bn)
  - Ind Mach (129 stocks; $701bn)
  - TrdgDist (58 stocks; $330bn)
  - Ag&Farm (11 stocks; $98bn)
  - OfficeServ (8 stocks; $16bn)

- **Strength**
  - 26 stocks; $272bn
  - 16 stocks; $85bn
  - 27 stocks; $157bn
  - 19 stocks; $144bn
  - 68 stocks; $337bn
  - 23 stocks; $108bn
  - 24 stocks; $125bn
  - 14 stocks; $155bn
  - 14 stocks; $44bn
  - 15 stocks; $57bn
  - 19 stocks; $95bn
  - 7 stocks; $45bn
  - 45 stocks; $246bn
  - 43 stocks; $345bn
  - 11 stocks; $23bn
  - 52 stocks; $1028bn

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March 6, 2019

Telecommunication Services

Momentum

Strength

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Mov&Ent
28 stocks; $517bn

Cabl&Sat
23 stocks; $377bn

IntHmEnt
18 stocks; $205bn

Broadcast
28 stocks; $96bn

IntMeSer
41 stocks; $1470bn

WlsTelSrv
42 stocks; $849bn

IntgTelSrv
58 stocks; $1262bn

AltCar
10 stocks; $39bn

Advert
17 stocks; $105bn

Publishing
13 stocks; $47bn
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.
User Guide 2 - Momentum

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>Sell</td>
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<td>3.7%</td>
<td>9.5%</td>
<td>2.0%</td>
<td>3.2%</td>
<td>1.6%</td>
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