Relative Strength Filter
Global Summary

Group Selection
Priced as of July 20, 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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### Sector Relative Strength Profiles*

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</thead>
<tbody>
<tr>
<td>Energy</td>
<td>17% / 16% / 29%</td>
<td>/ / /</td>
<td>15% / 15% / -1%</td>
</tr>
<tr>
<td>Materials</td>
<td>44% / 40% / 56%</td>
<td>/ / /</td>
<td>13% / 10% / -4%</td>
</tr>
<tr>
<td>Industrials</td>
<td>55% / 50% / 71%</td>
<td>/ / /</td>
<td>3% / 0% / -17%</td>
</tr>
<tr>
<td>CMR Disc</td>
<td>50% / 47% / 66%</td>
<td>/ / /</td>
<td>-1% / -3% / -19%</td>
</tr>
<tr>
<td>CMR Stap</td>
<td>51% / 47% / 66%</td>
<td>/ / /</td>
<td>0% / -3% / -22%</td>
</tr>
<tr>
<td>Hlth Care</td>
<td>59% / 55% / 73%</td>
<td>/ / /</td>
<td>3% / 0% / -15%</td>
</tr>
<tr>
<td>Financials</td>
<td>47% / 40% / 68%</td>
<td>/ / /</td>
<td>6% / 4% / -15%</td>
</tr>
<tr>
<td>Info Tech</td>
<td>64% / 59% / 76%</td>
<td>/ / /</td>
<td>5% / 3% / -11%</td>
</tr>
<tr>
<td>Telecom</td>
<td>52% / 45% / 69%</td>
<td>/ / /</td>
<td>1% / 2% / -18%</td>
</tr>
<tr>
<td>Utilities</td>
<td>61% / 50% / 75%</td>
<td>/ / /</td>
<td>8% / 2% / -13%</td>
</tr>
<tr>
<td>Real Estate</td>
<td>50% / 42% / 67%</td>
<td>/ / /</td>
<td>3% / 2% / -23%</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.
July 20, 2017

Energy

Momentum

Strength

Coal&Uran
22 stocks; $75bn

OG Equip
58 stocks; $282bn

OG E&P
115 stocks; $726bn

OG Drill
16 stocks; $28bn

OG StTr
89 stocks; $679bn

OG RfMkt
44 stocks; $442bn

Int O&G
29 stocks; $155bn
Momentum
Strength

July 20, 2017

Mark Steele (416) 359-4641

Health Care

MngHCare
12 stocks; $400bn

Pharma
106 stocks; $2528bn

HCFacility
28 stocks; $112bn

HCDistrib
19 stocks; $136bn

HCSupps
26 stocks; $148bn

Biotech
131 stocks; $1055bn

HCareTec
16 stocks; $67bn

12 stocks; $400bn

106 stocks; $2528bn

28 stocks; $112bn

19 stocks; $136bn

26 stocks; $148bn

131 stocks; $1055bn

16 stocks; $67bn

$148bn

$1055bn

$67bn

$400bn

$2528bn

$112bn

$136bn

$148bn

$1055bn

$67bn

$400bn

$2528bn

$112bn

$136bn

26 stocks

131 stocks

16 stocks

12 stocks

28 stocks

19 stocks

29 stocks

Health Care

MngHCare

Pharma

HCFacility

HCDistrib

HCSupps

Biotech

HCareTec

LfSciSrv

HCEquip

HCService

26 stocks; $148bn

131 stocks; $1055bn

16 stocks; $67bn

12 stocks; $400bn

28 stocks; $112bn

19 stocks; $136bn

29 stocks; $206bn

$148bn

$1055bn

$67bn

$400bn

$112bn

$136bn

$206bn
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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<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>
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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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* 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;
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(April 2013 - October 2016)
(January 2010 - April 2013)

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