Relative Strength Filter
Global Summary

Group Selection
Priced as of January 9, 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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BMO Capital Markets
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Sector Relative Strength Profiles*

- **Hyperlink**: Energy, Materials, Industrials, CMR Disc, CMR Stap, Health Care, Financials, Info Tech,Comm Srv, Utilities, Real Estate

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<tbody>
<tr>
<td>Energy</td>
<td>27% / 34% / 39%</td>
<td>16% / 7% / 0%</td>
<td></td>
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<tr>
<td>Materials</td>
<td>26% / 32% / 39%</td>
<td>26% / 14% / 4%</td>
<td></td>
</tr>
<tr>
<td>Industrials</td>
<td>30% / 37% / 42%</td>
<td>20% / 10% / -2%</td>
<td></td>
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<tr>
<td>CMR Disc</td>
<td>28% / 35% / 39%</td>
<td>31% / 19% / 8%</td>
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<tr>
<td>CMR Stap</td>
<td>39% / 49% / 57%</td>
<td>18% / 7% / -6%</td>
<td></td>
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<tr>
<td>Health Care</td>
<td>45% / 50% / 56%</td>
<td>8% / -1% / -12%</td>
<td></td>
</tr>
<tr>
<td>Financials</td>
<td>30% / 38% / 47%</td>
<td>20% / 8% / -6%</td>
<td></td>
</tr>
<tr>
<td>Info Tech</td>
<td>35% / 43% / 47%</td>
<td>17% / 6% / -2%</td>
<td></td>
</tr>
<tr>
<td>Comm Srv</td>
<td>37% / 44% / 52%</td>
<td>25% / 14% / 3%</td>
<td></td>
</tr>
<tr>
<td>Utilities</td>
<td>46% / 60% / 66%</td>
<td>30% / 18% / 3%</td>
<td></td>
</tr>
<tr>
<td>Real Estate</td>
<td>44% / 53% / 61%</td>
<td>26% / 14% / -2%</td>
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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
Momentum

Strength

PrecMet 15 stocks; $44bn

Gold 66 stocks; $188bn

MtGisCnt 14 stocks; $62bn

Fert&Ag 29 stocks; $143bn

IndusGas 7 stocks; $186bn

ComdChm 43 stocks; $376bn

Steel 69 stocks; $376bn

CstrMat 28 stocks; $207bn

Copper 14 stocks; $78bn

PaperPkg 17 stocks; $100bn

SpecChm 67 stocks; $496bn

DiversChm 22 stocks; $321bn

Silver 10 stocks; $18bn

FrstPrd 11 stocks; $23bn

DiversChm 22 stocks; $321bn

Alumin 10 stocks; $36bn

Silver 10 stocks; $18bn

Gold 66 stocks; $188bn

PrecMet 15 stocks; $44bn

Materials

January 9, 2019

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Real Estate

HCareREIT 17 stocks $102bn
REstOpCo 34 stocks $241bn
REstDvAct 34 stocks $302bn
HotelREIT 18 stocks $52bn
DiversREIT 35 stocks $146bn
RetailREIT 80 stocks $276bn
SpecREIT 31 stocks $327bn
IndusREIT 24 stocks $119bn
OfficeREIT 32 stocks $154bn
REstDev1 24 stocks $293bn
REstSrv 12 stocks $34bn
ResidREIT 28 stocks $163bn

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BMO Capital Markets
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).
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>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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