Group Selection
Priced as of December 21, 2018

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
Table of Contents

3. Sector View
4. Strength Changes Last Session
5. Resource Summary
6. Energy
7. Materials
8. Industrials
9. Consumer Discretionary
10. Consumer Staples
11. Health Care
12. Financials
13. Information Technology
14. Telecom
15. Utilities
16. Real Estate
17. User Guide
Sector Relative Strength Profiles*

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<tr>
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<td>Comm Srv</td>
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<tr>
<td>Utilities</td>
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<td>70% / 50% / 61%</td>
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<td>Real Estate</td>
<td>41% / 51% / 60%</td>
<td>/ / /</td>
<td>50% / 25% / 37%</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.
Strength Changes Last Session

DiversBnk ← Tobacco ← Sec&Alm ← Tire&Rub ← Ag&Farm

Footwear ← Tobacco ← AirprtSrv ← Ag&Farm ← DiversBnk

DiversBnk ← Tobacco ← Sec&Alm ← Tire&Rub ← Ag&Farm

FDRetail ← Tobacco ← Sec&Alm ← Tire&Rub ← Ag&Farm

FDRetail ← Tobacco ← Sec&Alm ← Tire&Rub ← Ag&Farm

FDRetail ← Tobacco ← Sec&Alm ← Tire&Rub ← Ag&Farm

FDRetail ← Tobacco ← Sec&Alm ← Tire&Rub ← Ag&Farm
December 21, 2018

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Resources

**Momentum**

**Strength**

- **PrecMet**
  - 15 stocks; $40bn
- **IndusGas**
  - 7 stocks; $182bn
- **Gold**
  - 37 stocks; $180bn
- **Silver**
  - 10 stocks; $17bn
- **ComdChm**
  - 43 stocks; $360bn
- **DiversChm**
  - 22 stocks; $294bn
- **Steel**
  - 59 stocks; $349bn
- **DvrsMng**
  - 54 stocks; $351bn
- **SpecChm**
  - 67 stocks; $468bn
- **CstrMat**
  - 28 stocks; $197bn
- **Int O&G**
  - 31 stocks; $160bn
- **Coal&Uran**
  - 21 stocks; $70bn
- **OG RfMkt**
  - 39 stocks; $443bn
- **OG Equip**
  - 87 stocks; $170bn
- **OG E&P**
  - 104 stocks; $638bn
- **OG Drill**
  - 13 stocks; $20bn
- **PaperPkg**
  - 17 stocks; $94bn
- **Copper**
  - 14 stocks; $77bn
- **OG StTr**
  - 73 stocks; $535bn
- **OG StTr**
  - 14 stocks; $350bn
- **MtGlsCnt**
  - 74 stocks; $132bn
- **Fert&Ag**
  - 29 stocks; $132bn
- **OG Equip**
  - 39 stocks; $443bn
- **OG Equip**
  - 87 stocks; $170bn
- **OG Equip**
  - 104 stocks; $638bn
- **OG Equip**
  - 13 stocks; $20bn
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  - 73 stocks; $535bn
- **OG Equip**
  - 14 stocks; $350bn
- **OG Equip**
  - 29 stocks; $132bn
### Industrials

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<tr>
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<td>Ind Mach</td>
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**Stocks and Market Capitalization:**

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*December 21, 2018*

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ElecComp
36 stocks; $229bn

EMS
18 stocks; $94bn

SemiEqp
42 stocks; $209bn

SystmSwr
36 stocks; $112bn

ComEquip
40 stocks; $363bn

ITConsult
49 stocks; $620bn

ElecInstr
44 stocks; $213bn

TechDist
13 stocks; $40bn

Semi
75 stocks; $1096bn

DataProc
47 stocks; $901bn

InetSrv&In
12 stocks; $659bn

ApplicSwr
97 stocks; $778bn

HdwrSt&P
40 stocks; $177bn
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 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.
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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Investors should consider the investment objectives, risks, and charges and expenses of the investment company carefully before investing. The prospectus for the ETF contains this and other information about the investment company and should be read carefully before investing. Clients may obtain prospectuses for the ETFs mentioned in this report from the ETF distributor or the exchange upon which it is listed. This report is not a prospectus or an offer to buy or sell any security, or to participate in any trading strategy. For a complete list of ETFs mentioned in this report, please contact the research analyst directly.

Investors in ETFs with international securities may assume currency and political risk. Sector and commodity specific ETFs are not diversified and may focus their investments entirely in a single sector, commodity, or basket of commodities. As a result, the ETFs will involve a greater degree of risk than an investment in other diversified fund types.

ETFs designed to track an index or asset may experience a discrepancy between the ETF’s performance and the performance of its target index known as tracking error. A variety of factors can create a performance gap between ETF and its target index such as the impact of transaction fees and expenses incurred by the ETF, changes in composition of the underlying index/assets, the ETF portfolio manager’s replication strategy and sampling techniques, and the timing of purchases and redemptions of ETF’s shares.

Inverse and Leveraged ETFs: Most leveraged ETFs seek to provide a multiple of the investment returns of a given index or benchmark on a daily basis. Inverse ETFs seek to provide the opposite of the investment returns, also daily, of a given index or benchmark, either in whole or by multiples. Due to the effects of compounding and possible correlation errors, leveraged and inverse ETFs may experience greater losses than one would ordinarily expect.

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Distribution of Ratings (March 31, 2017)

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<td>22.8%</td>
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* Reflects rating distribution of all companies covered by BMO Capital Markets Corp. equity research analysts.
** Reflects rating distribution of all companies from which BMO Capital Markets Corp. has received compensation for Investment Banking services as percentage within ratings category.
*** Reflects rating distribution of all companies from which BMO Capital Markets Corp. has received compensation for Investment Banking services as percentage of Investment Banking clients.
**** Reflects rating distribution of all companies covered by BMO Capital Markets equity research analysts.
***** Reflects rating distribution of all companies from which BMO Capital Markets has received compensation for Investment Banking services as percentage of Investment Banking clients.
**Ratings Key (as of October 2016)**
We use the following ratings system definitions:
- **OP** = Outperform - Forecast to outperform the analyst’s coverage universe on a total return basis;
- **Mkt** = Market Perform - Forecast to perform roughly in line with the analyst's coverage universe on a total return basis;
- **Und** = Underperform - Forecast to underperform the analyst's coverage universe on a total return basis;
- **(S)** = Speculative investment;
- **Spd** = Suspended - Coverage and rating suspended until coverage is reinstated;
- **NR** = No Rated - No rating at this time; and
- **R** = Restricted - Dissemination of research is currently restricted.

BMO Capital Markets’ seven Top 15 lists guide investors to our best ideas according to different objectives (CDN Large Cap, CDN Small Cap, US Large Cap, US Small Cap, Income, CDN Quant, and US Quant have replaced the Top Pick rating).

**Prior BMO Capital Markets Rating System**
(April 2013 - October 2016)
(January 2010 - April 2013)

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