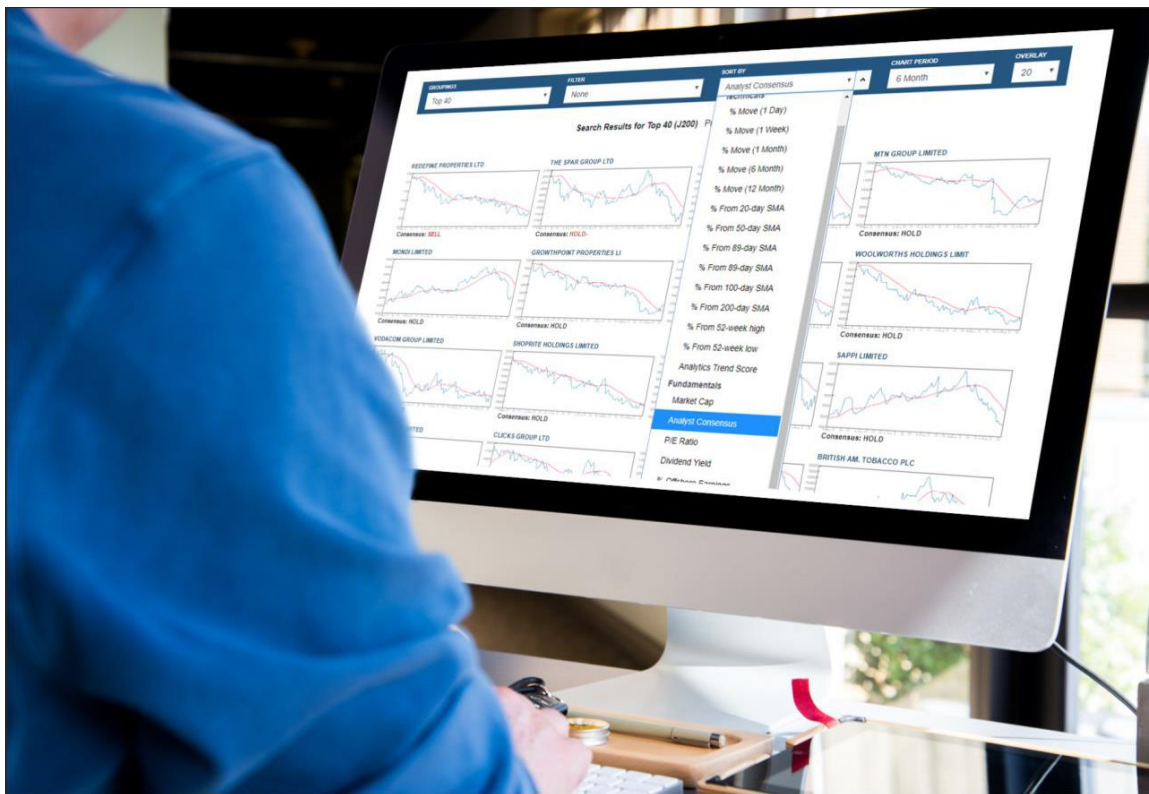


ANALYTICS MARKET SCANNER

Ver 1.3, Nov 2018

USER-GUIDE



CAPE TOWN

Tygervalley Office
301, 3rd Floor, Imperial Terraces,
Tygervalley Waterfront, 7530

Tokai Office
4 Silverwood Close, Steenberg
Office Park, Tokai, 7945

T: +27 (0)21 700 4800
support@sharenet.co.za
www.sharenet.co.za

Sharenet (Pty) Ltd,
a juristic representative of
Sharenet Securities (Pty) Ltd
(FSP #28430)

1. OVERVIEW

The Sharenet Analytics Market Scanner is a unique graphical scanner that allows you to browse Watchlists, JSE shares, JSE Indices, Exchange Traded Funds (ETF's), Exchange Traded Notes (ETN's) and Unit Trusts by sectors and providers as well as filter and sort the results by various technical, algorithmic and fundamental factors.

The Analytics Scanner is available in three versions, namely a free-to-air (public) version, a registered (subscribe for free) version and a fully unlocked version:

Functionality	FREE	REGISTERED	UNLOCKED
Filters	7	17	28
Sorts	4	8	20
Periods	1	4	5
Overlays	1	2	5
Total Functionality	22.4%	53.4%	100.0%
Instruments	FREE	REGISTERED	UNLOCKED
Groups	2	6	93
Watchlists/Portfolios		1	3
Structured Categories	1	3	4
FTSE/JSE Indices	1	2	16
JSE Sectors			70
Instruments	109	333	986
ETF's	69	69	69
TOP-40	40	40	40
ETN's		26	26
FTSE Indices		33	33
All-Share (J203)		165	165
Unit Trusts			471
Additional JSE Shares			182
% Total Instruments	11.1%	33.8%	100.0%

The Registered-for-free version includes a Sharenet Free Portfolio (Watchlist) of up to 30 JSE shares, ETF's, Indices and Unit Trusts which can also be loaded and viewed in the Scanner.

The **fully Unlocked version** is **ad-free** and available in *any Sharenet paid data subscription* exceeding R120pm, starting with the [MySharenet](#) subscription. It is *also included free* in any Sharenet Securities or Sharenet CFD trading account.

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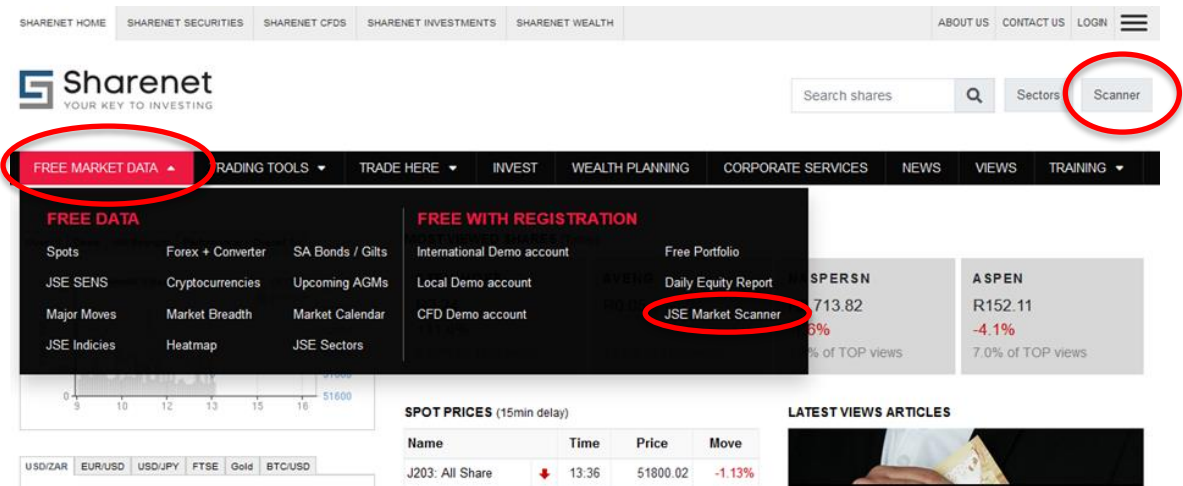
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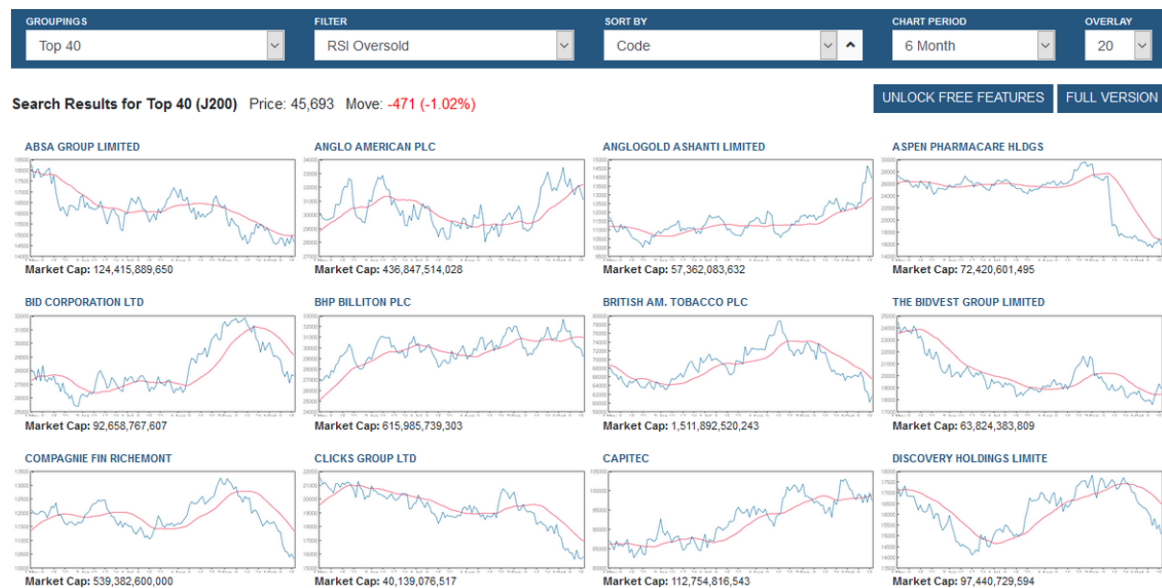
2. ACCESSIBILITY

The Scanner is available from the following locations:



3. USER INTERFACE

The Scanner consists of 5 selector fields and a resultant output list. The output list is shown as charts of the various instrument prices, defaulted to 6-months:



User selections memorized during session to encourage experimentation

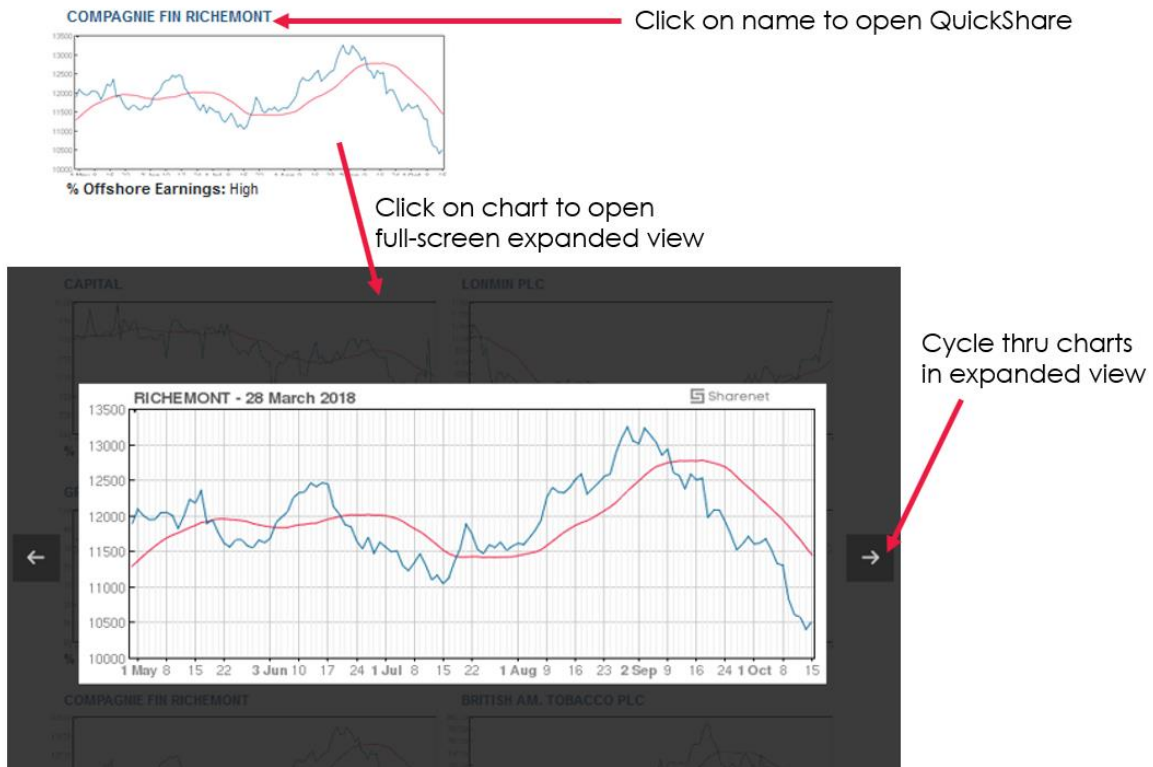
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Tygervalley Waterfront, 7530

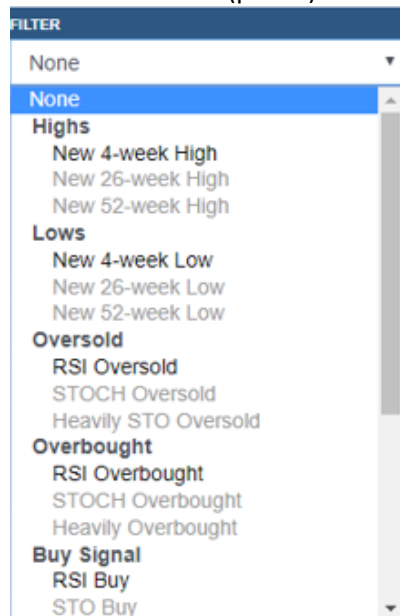
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Certain selection options may be greyed out if they are not provided with the Scanner version you are using. You will need to upgrade or log-in to gain access to them. The samples below show what a free-to-air (public) version will show as available for the FILTER options:



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4. GROUPINGS

The following groupings are supported.

GROUPS	FREE	REGISTERED	UNLOCKED
My Portfolios			
Free Portfolio		YES	YES
SIMEX Trading Account			YES
Watchlists			YES
Structured	FREE	REGISTERED	UNLOCKED
Exchange Traded Funds	YES	YES	YES
Exchange Traded Notes		YES	YES
Unit Trusts			YES
FTSE Indices		YES	YES
FTSE Indices	FREE	REGISTERED	UNLOCKED
J203: All-Share (J203)		YES	YES
TOP-40 (J200)	YES	YES	YES
Basic Materials			YES
Construction & Materials			YES
Consumer Goods			YES
FTSE/JSE Alt-X			YES
Financials & Industrials			YES
Financials			YES
Food & Drug Retailers			YES
General Retailers			YES
INDI-25			YES
Industrials			YES
Mid-Cap Index			YES
Resources Index			YES
Listed Property Index			YES
Small-Cap			YES
Sectors	FREE	REGISTERED	UNLOCKED
ALT-X			YES
70 JSE sectors			YES

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5. FILTERS

The following FILTERS options for JSE instruments are provided:

FILTER	FREE	REGISTER	UNLOCKED	FILTER	FREE	REGISTER	UNLOCKED
Highs				BUY Signals			
New 4-week High	YES	YES	YES	RSI Buy	YES	YES	YES
New 26 -week High		YES	YES	STO BUY		YES	YES
New 52-week High			YES	Strong BUY			YES
Lows				5/20-day SMA Buy		YES	YES
New 4-week Low	YES	YES	YES	20/100-day SMA Buy			YES
New 26 -week Low		YES	YES	SELL Signals			
New 52-week Low			YES	RSI Sell	YES	YES	YES
Oversold				STO Sell		YES	YES
RSI Oversold	YES	YES	YES	Strong SELL			YES
STOCH Oversold		YES	YES	5/20-day SMA Sell		YES	YES
Heavily Oversold			YES	20/100-day SMA Sell			YES
Overbought				Analytics algorithms			
RSI Overbought	YES	YES	YES	Magic Formula	YES	YES	YES
STOCH Overbought		YES	YES	Piotroski Value picks		YES	YES
Heavily Overbought			YES	Extraordinary Volume		YES	YES
				Buy-on-Dip Algorithm			YES
				Earnings Aristocrats			YES
				Dividend Aristocrats			YES



When ETF or ETN are selected in GROUPS, the **Magic Formula**, **Piotroski**, **Earnings Aristocrats** and **Dividend Aristocrats** items in “Analytics algorithms” will be disabled.



When “All Indices” are selected in GROUPS, the entire FILTERS dropdown will be disabled as we don’t provide this just yet.

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When UNIT TRUSTS are selected from GROUPS, the FILTER options change to the following, to allow filtering by Manco provider (Management Company) or Unit Trust Category:

None	^
Unit Trust Providers	
Absa Fund Managers (RF) (Pty) Ltd.	
Alexander Forbes Investments Unit Trusts Limited	
Allan Gray Unit Trust Management (RF) Pty Limited	
Anchor Capital (Pty) Ltd.	
Ashburton Management Company (RF) (Pty) Ltd.	
BlueAlpha Investment Management (Pty) Ltd.	
Boutique Collective Investments (RF) (Pty) Ltd.	
Bridge Fund Managers (Pty) Ltd.	
Cadiz Collective Investments	
Celtis Financial Services (Pty) Ltd.	
Ci Collective Investments (RF) Prop Ltd.	
Community Growth Management Company Ltd.	
Coronation Fund Managers Ltd.	
Discovery Life Collective Investments (Pty) Ltd.	
DSFIN Services (Pty) Ltd.	
Flagship Private Asset Management (Pty) Limited	
Foord Unit Trusts Limited	
GCI Wealth	v
Unit Trust Sectors	
Global--Equity--General	
Global--Equity--Unclassified	
Global--Interest --Short Term	
Global--Interest --Variable Term	
Global--Multi Asset--Flexible	
Global--Multi Asset--High Equity	
Global--Multi Asset--Income	
Global--Multi Asset--Low Equity	
Global--Multi Asset--Medium Equity	
Global--Real Estate--General	
Regional--Botswana--Unclassified	
Regional--Equity--General	
Regional--Interest --Short Term	
Regional--Interest--Variable Term	
Regional--Multi Asset--Flexible	
Regional--Multi Asset--High Equity	
Regional--Namibian--Unclassified	
Regional--Real Estate--General	
SA--Equity--Financials	v

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6. SORT BY OPTIONS

The following sorting options are provided for all instruments:

SORT BY	FREE	REGISTERED	UNLOCKED
Technicals			
% Move (12-month)			YES
% Move (6-month)		YES	YES
% Move (1-month)		YES	YES
% Move (1-week)	YES	YES	YES
% Move (1-day)	YES	YES	YES
% From 20-day SMA	YES	YES	YES
% From 50-day SMA		YES	YES
% From 89-day SMA			YES
% From 100-day SMA			YES
% From 200-day SMA			YES
% From 52-week high			YES
% From 52-week low			YES
Analytics Trend Score			YES
Fundamentals			
	FREE	REGISTERED	UNLOCKED
Market-Cap	YES	YES	YES
P/E Ratio		YES	YES
Dividend Yield			YES
Offshore Earnings %			YES
Analyst Consensus			YES
Yrs consistent EPS growth			YES
Yrs consistent DIV growth			YES



When Unit Trusts are selected in GROUPS, the Analytics Trend Score and **Fundamentals** section of the SORT selector will be hidden as we do not provide these in the Scanner.



When ETF's, ETNs and "All Indices" are selected in GROUPS, only the Market-Cap is provided as a fundamental sort option.

When sorting lists of shares, the SORT CRITERIA and values are shown at the bottom of each chart:



7. WATCHLISTS/PORTFOLIOS

The free-to-air public Scanner version does not integrate with any Watchlists.

The registered-free version comes bundled with a Sharenet Free Portfolio which allows you to track up to 30 instruments. You can select this portfolio and see all the instruments (including Unit Trusts) in your portfolio on a single page with their charts.

You can also track and manage your Free Portfolio (excluding the Unit Trusts) on the Sharenet Mobile App.



If you have ETF's, ETN's, FTSE Indices or Unit Trusts in your Free Portfolio, they will **not appear** when filter/sort options are selected *that do not apply to them*.

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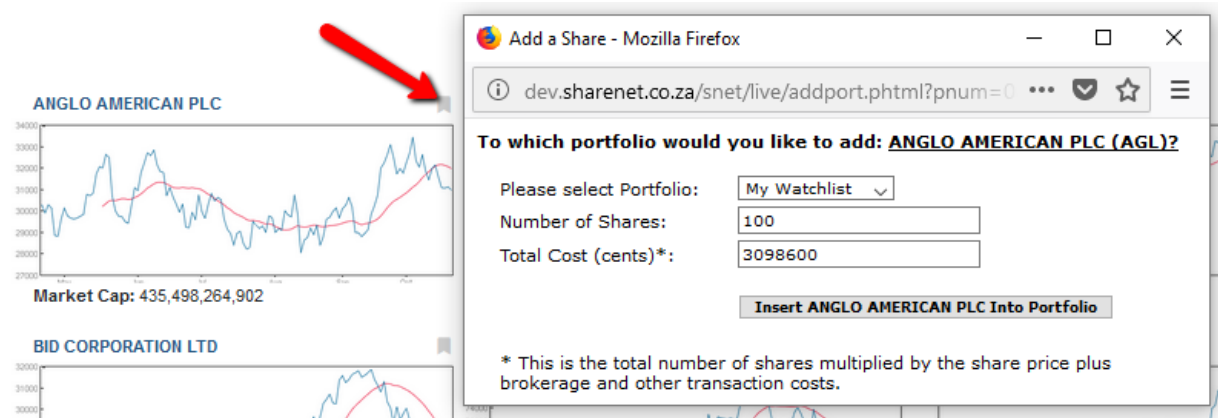
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The paid version of the Scanner also integrates into the SIMEX Virtual JSE account and up to 5 SIMEX watchlists. You can load these up at any time and see the charts of all the JSE shares in these accounts/watchlists on the page and further filter and sort accordingly. You cannot load Indices or Unit Trusts into SIMEX watchlists/accounts since they are not JSE listed instruments.

If you are a Sharenet Analytics client, the Scanner will load your Analytics Trading, Investing and Watchlist portfolios.

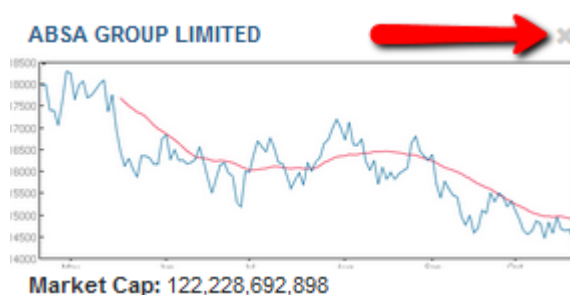
If you are a Sharenet Securities client, the Scanner will also provide the option to load up your first five Securities platform watchlists *as well as your live securities account's holdings*.

From within the scanner, you can add any instruments to your Free Portfolio, SIMEX watchlist or Sharenet Securities watchlist by clicking on the grey icon as depicted below:



The screenshot shows a stock chart for **ANGLO AMERICAN PLC** with a market cap of 435,498,264,902. A red arrow points to a grey icon on the chart. A modal window titled "Add a Share - Mozilla Firefox" is open, showing the URL `dev.sharenet.co.za/snet/live/addport.phtml?pnum=0`. The modal asks "To which portfolio would you like to add: **ANGLO AMERICAN PLC (AGL)?**" and provides input fields for "Please select Portfolio:" (My Watchlist), "Number of Shares:" (100), and "Total Cost (cents)*:" (3098600). A button "Insert ANGLO AMERICAN PLC Into Portfolio" is visible, along with a disclaimer: "* This is the total number of shares multiplied by the share price plus brokerage and other transaction costs."

To remove instruments from your Free Portfolio or SIMEX/Securities Watchlists, load the relevant portfolio/watchlist from GROUPS and then select the "X" to remove the instrument from the watchlist:



The screenshot shows a stock chart for **ABSA GROUP LIMITED** with a market cap of 122,228,692,898. A red arrow points to an "X" icon located at the top right of the chart area.



Due to the sophistication of the Analytics portfolios, you cannot add or remove shares to them from within the scanner. You must go into the portfolio manager to do this.

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8. CHART PERIODS AND OVERLAYS

The following are available:

CHART PERIOD	FREE	REGISTERED	UNLOCKED
12-month		YES	YES
6-month	YES	YES	YES
3-month		YES	YES
1-month		YES	YES
Intraday			YES
CHART SMA	FREE	REGISTERED	UNLOCKED
20-day	YES	YES	YES
50-day		YES	YES
89-day			YES
100-day			YES
200-day			YES
ADVERTISING	FREE	REGISTERED	UNLOCKED
Banners every 3 rows	YES	YES	

Certain simple moving average (SMA) options will force changes to the CHART PERIOD to ensure the SMA is visible:

- 200-day SMA forces CHART PERIOD to 12-month
- If 50-day SMA chosen and CHART period is 1-month then CHART PERIOD changes to 3-month
- If 89-day or 100-day SMA chosen and PERIOD < 6 months, then it will be changed to 6-months.

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9. ANALYTICS ALGORITHMS

Magic Formula: Joel Greenblatts' famous methodology from "The little book that beats the market" that ranks shares by P/E and Return on Capital (ROC) to arrive at a ranking that represents the best quality (ROC) at the best price (P/E). The filter is applied to the J203: All-Share (163 shares) and shows the TOP-20 rankings so the Index or sector you are viewing will contain a sub-set of these 20 shares. Select "All Share" in GROUPS to see all 20 Magic Formula shares.

Piotroski: Value picks as defined by Joseph Piotroski' s methodology that looks at beaten up shares that still have solid financials. Financials are based on 9 tests conducted on the last 2 sets of financials and only shares with scores of 8 or 9 that have fallen 20% are considered.

Buy-on-Dip: An algorithm designed by Analytics that looks for shares that have fallen at least 10% and are showing signs of an early technical recovery.

Extraordinary Volume: Shares that have turned a volume today that is 150% above the 3-month average volume. Something unusual is happening.

Earnings Aristocrats: These are JSE shares in your chosen grouping that have posted at least 5 years of consecutive, uninterrupted earnings growth, final-to-final and interim-to-interim. So, a share with at least 5 years uninterrupted growth will have earnings growth inspected in its last 10 financials (5 finals and 5 interims) and the 5 sets of final-to-final earnings growth and the 5 sets of interim-to-interim earnings growth would have been greater than zero. Shares with these qualities are known as "earnings aristocrats" and have consistently outperformed the general index over the last 6 decades.

Dividend Aristocrats: These are JSE shares in your chosen grouping that have posted at least 5 years of consecutive, uninterrupted dividend growth, final-to-final and interim-to-interim. So, a share with at least 5 years uninterrupted growth will have dividend growth inspected in its last 10 financials (5 finals and 5 interims) and the 5 sets of final-to-final dividend growth and the 5 sets of interim-to-interim dividend growth would have been greater than zero. Shares with these qualities are known as "dividend aristocrats" and have consistently outperformed the general index over the last 6 decades.

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