

Enhanced Joule[®] Charting and Analytics

Trayport's Joule SaaS trading screen gives you access to analytics to support your trade decision making within Joule.



JOULE CHARTING

Joule's charting tool is available within your Joule trading screen providing easy access to a range of enhanced features. It gives you access to 8 different chart types including Continuous Chart which allows you to view long term market trends by charting near term delivery over time.

As standard, Joule gives you access to 15 different indicators to choose from including:

- Bollinger Bands
- Moving Average Convergence Divergence (MACD)
- Relative Strength Index

Additional features include:

- **Drawing Tools:** over 20 drawing tools, ranging from simple trend and stop lines, to advanced analytical tools such as Gann lines and a range of Fibonacci tools.
- **Overlay Charts:** allows multiple products to be overlaid in a single chart by dragging and dropping from your marketsheet.



ENHANCED ANALYTICS

In addition to the comprehensive charting features available as standard, traders have the option of accessing Joule's Enhanced Analytics. This gives greater insight into the market by providing additional indicators, chart types, strategies and views to support your trading.

EASY ACCESS

Joule's Enhanced Analytics is available within your Joule trading screen, providing up to 19 extra chart types.

IN-DEPTH ANALYSIS:

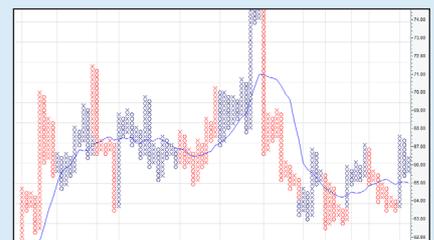
Up to 50 extra indicators are available to allow you to carry out advanced technical analysis:



- **Ichimoku Kinko Hyo:** allows you to easily identify market trends and potential signals within a trend to define support and resistance, identify trend direction, gauge momentum and provide you with trading signals using your data set.
- **Momentum:** see market momentum by using the Momentum Indicator which continually takes price differences for a fixed time interval and measures the rate of the rise or fall displayed within your chart.
- **Keltner Channels:** identify reversals with channel breakouts and channel direction providing you with the opportunity to spot trends and establish a trading preference.

ADDITIONAL CHART TYPES

- **Point and Figure:** supports your trade decision making by allowing you to quickly and easily visualise market trends including support and resistance zones.
- **Candle Volume:** combines charts of prices and volumes and allows you to quickly interpret market price and volume trends such as open and close pricing trends, the direction and magnitude of price movements and the trading volume, by looking at the shape and colour of the candlesticks.
- **Renko Chart:** gives you total control in determining the triggers that form your chart view by focusing exclusively on your defined minimum price changes. This allows you to easily spot important highs and lows, identify key support and resistance levels as well as identify uptrends or downtrends. You can also enhance the analysis available to you by adding indicators to your Renko Chart.



JOULE ENHANCED TRADING TOOLS

MORE WAYS TO VIEW DATA

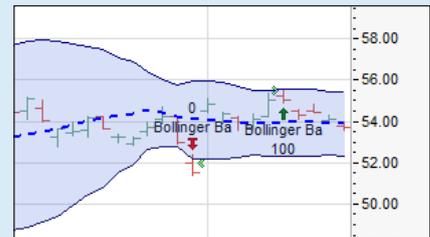
Joule's Enhanced Analytic tool gives you total control, allowing you to overlay multiple data series to track periods against each other and identify seasonal patterns.

SMARTER TRADING



- **Forward Curves:** automatically calculate forward curves, allowing you to visualise forward or futures prices for a contract. Additionally, you can add indicators and strategies to your chart for a more holistic view.
- **Adjusted Continuous charts:** quickly and easily display historical data that you need in order to perform meaningful analysis.

- **Seasonal Charts:** compare seasonal patterns by overlaying the prices from multiple years of a single contract on a single chart. Add a Seasonal Average Indicator to show the average price across all contracts in the contract series to help enhance selectivity and timing of your entries and exits in the market.
- **Strategies:** run trading strategies and back-test against historical market data, giving you the opportunity to better implement defined strategies and identify your optimal market entry and exit points.



ENHANCED JOULE CHARTING AND ANALYTICS OVERVIEW

DESCRIPTION	JOULE	ENHANCED ANALYTICS*
Chart Types	8	15
Indicators	15	50
Strategies (including Moving Average Double Crossover, MACD Crossover, Bollinger Band Reversal and Timed Exit)		14

DATA VIEWS	JOULE	ENHANCED ANALYTICS*
Unadjusted Continuous Chart	✓	✓
Volume Chart	✓	✓
Percent Performance Chart	✓	✓
Forward Curves		✓
Seasonal Charts		✓
Adjusted Continuous Chart		✓

Contact us now to see how you can benefit from Trayport's Enhanced Joule Charting and Analytics.

**Joule's Enhanced Analytics module is subject to additional fees.*

- To access Joule online Help click the ? icon in the top right corner of the Joule screen and select 'Help', or press F1
- For further information please contact clientmanagerstraders@trayport.com
- Contact us on +44 (0) 20 7960 5511

Any trading activity is conducted with the specific trading venue. Trayport is a software provider of trading solutions and is not a trading venue. Trayport does not arrange investments or provide investment advice.

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