

## QUANTOWER BOT DETAILS

The two indicators to use are:

- (a) AIQ Super bands (Repainting). The BOT will only take TREND following trades that are entered IN THE CORRECT HALF OF THE MAIN/SLOW BANDS ONLY. BUY TRADES CAN ONLY BE ENTERED IN THE LOWER HALF OF THE SLOW BANDS WHILE SELL TRADES CAN ONLY BE ENTERED IN THE UPPER HALF OF THE SLOW BANDS. The signals are determined by the next indicator (AIQ 1 Indicator) with the AIQ super bands used to filter these signals, PARTICULARLY TRADES IN CHOPPY MARKETS. Filtering these trades will be in two parts (i) Trend direction which will be determined by either the repainting AIQ Super bands and/or the non-repainting third indicator named the AIQ bands AND (ii) The correct half of the repainting AIQ super bands. The AIQ super bands will automatically refresh/repaint to ensure that the bands are as close as possible to the current market situation – The setting used for this is “Enable Full Periodic Recalc” with a setting between 1 and 10 bars, with the correct setting established with optimisation i.e. automatically refresh after every xxx bar(s). The faster bands of the AIQ super bands are not necessary.
- (b) AIQ 1 indicator (Non-repainting). This will be used to determine the entry signals to be traded in the direction of the main/slow bands of the AIQ super bands. The signals from the AIQ 1 Indicator do not repaint once the relevant bar closes, though they may appear and disappear before the bar closes but once the bar closes, these AIQ 1 signals do not repaint or disappear. There are two types of non-repainting signals being (i) Momentum signals shown as square dots and (ii) Reversal signals shown as vertical lines.
- (c) *However, because the Super Bands repaint/refresh, the Bot will create a “SUPER INDICATOR” which only captures the historical plots for all three indicators, using the exact same settings of the three indicators as was used for trading and highlights with a vertical line where both indicators signal a trade entry and trade exit. As such, if I want to see the actual trade entries and exits, then I load the SUPER INDICATOR, and it shows every location of the trade by plotting the historical points of both indicators on the chart. The trade entries and exits will be labelled sequentially e.g. Buy entry number 25 based on system A and Buy exit number 25 based on breakeven stop hit. This SUPER INDICATOR will not be used for trading.*

### Other Notables:

- (a) The Bot should be able to trade on renko, range or candlestick charts.
- (b) The Quantower renko charts for trading, backtest and optimisation must be set on “1 tick” and NOT time based (second, minute, hour, etc.).

## **DEVELOPER RESPONSIBILITIES:**

**Develop Bot for Quantower platform based on the provided specification and run initial backtest and optimisation on selected symbols like XAUUSD,**

**USDJPY, EURUSD, BTCUSD, US30 and USTECH – Developer must have proven experience in running Optimisation on Quantower platform.  
Developer must have proven experience in implementing Quantower Bots with zero lag order entries.**

**(1) SYSTEM RULES**

**(A) ENTRY RULES FOR CATEGORY M/MOMENTUM TRADES BASED ON AIQ 1 SIGNALS SHOWING THE SQUARE DOT:**

**CATEGORY M TRADES ONLY**

- (i) The CLOSE of the entry brick must be in the upper half for SELL trades OR in the lower half of the **Main/Slow super bands** for BUY trades. The close of the entry brick must be lower than the midline of the slow super bands for BUY trades and higher than the midline for SELL trades. **Only the Main/slow super bands are used in this manner to determine CATEGORY M Trades. *THIS RULE IS NECESSARY FOR FILTERING OUT TRADES IN CHOPPY MARKETS AND FOR FILTERING OUT BUY TRADES AT TOP OF THE MARKET OR SELL TRADES AT LOW OF THE MARKET – Though some good/profitable trades will be missed due to this, but mostly losing trades will be filtered out.***
- (ii) The AIQ\_1 Indicator must signal with a square dot.
- (iii) To determine trend direction, the Midline of the Main/slow super bands (repainting) must point in the same direction as the AIQ\_1 indicator signal. (The midline of the fast bands is not considered for Category M trades).

**(B) CATEGORY R/REVERSAL TRADES ONLY BASED ON GREEN AND RED VERTICAL LINES FROM AIQ SUPER BANDS:**

- (i) Reversal/Category R trade entries occur when the AIQ\_1 indicator signals either an Aqua/Green coloured vertical line (for BUY) or Blue/Red vertical line (for SELL).
- (ii) The CLOSE of the entry brick must be in the upper half for SELL trades OR in the lower half of the **Main/Slow super bands** for BUY trades. The close of the entry brick must be lower than the midline of the slow super bands for BUY trades and higher than the midline for SELL trades.
- (iii) To determine the trend direction, either the Midline of the **Main/slow super bands (repainting)** must point in the same direction as the vertical line i.e. Upwards for BUY and downwards for SELL.

**ENTRY RULE APPLICABLE TO BOTH CATEGORIES**

- (i) **Reversal/Category R trades and Category M trades can be opened at the same time since they are all trend following trades i.e.** Additional trade entries can be opened only in the same direction if all the above conditions are met. This means that trades for both categories can be opened at the same time BUT they MUST all be in the same direction as these are all trend following trades determined by the midline of the Main/slow super bands AND/OR the midline of the AIQ bands.

**There should be a setting to allow the trader to select which Category of trades to take, i.e. Category M or R or both.**

**(C) STOP LOSS MANAGEMENT:**

- (a) Set Catastrophic stop loss at the default xxx pips/points/ticks above (for sell trades) OR below (for buy trades) the nearest pivot point, immediately trade is opened. The default for xxx pips/ticks to be added to the nearest pivot point should be TWO RENKO bricks without considering the wick. To determine the pivot point, please use the lowest point for BUYs or highest point for SELLs for the start of the trend for the relevant trade entry that requires the stop loss.
- (b) FOR BOTH CATEGORY M AND R TRADES, move stop loss to break even PLUS xxx pips/points/ticks once market closes beyond the **MIDLINE OF THE SLOW BANDS**. FOR THIS RULE, THE QUALIFYING RENKO BRICK MUST BE FULLY ON THE OPPOSITE SIDE OF THE MIDLINE I.E. BOTH BODY AND WICK OF THIS QUALIFYING RENKO BRICK MUST NOT TOUCH THE MIDLINE. The default setting for this will be midline of the slow bands i.e. 50<sup>th</sup> percentile. In addition, the default setting for Breakeven for xxx pips/ticks should be Breakeven PLUS the size of the body of ONE renko brick without considering the wick.

**(D) EXIT RULES:**

**Whichever of the following EXIT RULES OCCURS FIRST:**

- (a) When stop loss is hit, OR
- (b) Once an opposite SQUARE DOT/Momentum signal appears from the AIQ\_1 Indicator – This exit rule applies to both Categories of trades. For trade exits based on the SQUARE DOTS/Momentum signals from the AIQ\_1 Indicator, the exit signals can be either valid or invalid i.e. once the Momentum signal appears, the open trade must be closed. This is different from the next exit rule which only applies to valid opposite signals, OR
- (c) Once a VALID opposite REVERSAL signal/VERTICAL LINE appears from the AIQ\_1 indicator. A valid opposite reversal signal is one that meets all 4 entry rules above for Category R/Reversal trades. If all the 4 entry rules above are NOT met, then the reversal trade signal is NOT valid, and the open trade cannot be closed. This exit rule applies to open trades of both Categories i.e. only Valid reversal trade signals can close and/or open trades of both categories, unlike Momentum signals which can close trades whether or not they are valid.

**(E) LIMIT ORDERS:**

All entries, exits, and stop loss should be based on LIMIT ORDERS to reduce slippage. The limit orders are based on the CLOSING PRICE of the signal renko brick.

**(3) EA SETTINGS**

**(a) General settings**

- (i) Symbols to Trade (Exactly as stated in the Market watch of the platform being used).

- (ii) Trade on renko chart or candle stick chart.

**(b) Indicator settings**

- (i) **Super bands** - Main length; Main Deviation for slow bands and Fast length; Fast Deviation for the fast bands.  
Enable periodic full recalc. – to be ticked; Full recalc period (bars) – to be set at between 1 and 10 after optimisation.
- (ii) **AIQ\_1 Indicator** – Period; Phase – to be left always at 0; Smoothing method; Step size – to be left at 0.
- (iii) **Only take trades from one of these options: Category M; OR Category R OR Both categories (Trader to select trade Category(ies) to trade).**

**(c) Money Management (Bot should automatically detect if trader is trading futures or forex and use the appropriate money management system e.g. lot size for forex and futures contracts for futures, etc.):**

- (i) Fixed order lot size (to two decimal places for)/ Fixed futures contracts (only whole numbers for futures contracts).
- (ii) Auto lot compounding (based on say 0.01 lot for every \$100 in account OR 1 futures contract for every \$1,000 in account).
- (iii) Maximum number of trade entries in same direction (Trader to enter a figure of at least 1)
- (iv) **Stop Loss management:**
  - (a) (Set xxx pips or points or ticks above (for sell trades) OR below (for buy trades) nearest pivot to trade entry. When multiple trades are allowed in same direction, each open trade must have a stop loss).
  - (b) Move stop loss to breakeven PLUS xxxx ticks/pips when market closes above (for buy trades) or below (for sell trades) the midline of the slow and/or fast super bands.

**(c) Main Settings**

- (i) Maximum spread (in pips or points or ticks)

**(ii) Filter for High Impact news (linked to [Forexfactory.com](https://www.forexfactory.com) or any better version).**

**(d) Time settings**

- (i) Start time in hours and minutes (based on broker time)

- (ii) End time in hours and minutes (based on broker time)

(Default time setting for bot should be to stop trading 15 minutes BEFORE US markets close and to start trading 15 minutes AFTER Tokyo markets open. Use the broker, IC Markets time for the default time setting).

**(e) SUPER INDICATOR SETTINGS:** The Super indicator will use the exact same settings of both indicators and will not have its own settings. All it does is to show on the chart (a) the historical plot of both indicators for each renko brick/candle stick (b) Trade

entries and exits, AND (c) colours the midline of slow bands of AIQ Super bands with green for uptrend and red for down trend.

(f) The developer will provide training on the use of the Bot particularly for backtest and optimisation.

OVERALL, PLEASE NOTE THAT DUE TO THE LIMITATIONS OF QUANTOWER PLATFORM, THE ABOVE SPECIFICATION MAY HAVE TO BE AMMENDED TO ACCOMMODATE ANY IDENTIFIED LIMITATIONS.

I would also welcome any improvement suggestions from the developer!

*The Category R/reversal signals appear to work very well with the Quantower Geometric renko with 12% Inversion and 12% extension (the resulting renko is like the Ninza renko) – Trade entries are much earlier than the normal renko. The matching entry signal from AIQ bands (non-repainting) is Category R/Reversal signals NOT the momentum signals which appear later than the reversal signals. The trend filter which matches this geometric renko type is the AIQ bands (non-repainting), using MA2 rather than MA1 smoothing which can be used on its own or in combination with AIQ super bands (repainting) – Even better results are achieved when BOTH Midlines are combined to determine trend direction. This combination works well on Bitcoin. However, optimisation will be necessary to get the best settings – Visually Confirmed on September 14, 2025.*