

User Manual: BetEngulfingScalper3 NinjaTrader Strategy

Version Information

- **Strategy Name:** BetEngulfingScalper3 (also referred to as "Engulfing Scalper Strategy Rev3")
- **Description:** A scalping strategy designed for the 1-minute timeframe, utilizing engulfing candlestick patterns combined with EMA trend filters, RSI momentum, volume confirmation, ATR-based filters, and multi-timeframe (5-minute) trend alignment. It includes risk management features like ATR-based stops/profits, trailing stops, profit/loss clamps, time-based filters, alerts, and email notifications.
- **Platform:** NinjaTrader 8 (compatible with Strategy Analyzer for back-testing).
- **Author/Notes:** Based on "Bars Edge Trader 2025". This strategy is for educational and trading purposes; always test in simulation before live use.
- **Disclaimer:** Trading involves risk. This strategy does not guarantee profits. Use at your own discretion. Back-test thoroughly before deploying.

Introduction

The BetEngulfingScalper3 strategy is a momentum-based scalper that identifies high-probability reversals using engulfing patterns on a 1-minute chart. It filters entries with:

- Trend alignment (200-period EMA on 1-min and 5-min charts).
- Momentum (RSI >50 for longs, <50 for shorts).
- Volume surge (current volume > 10-period SMA of volume).
- Volatility filters (ATR-based body size and price change thresholds).
- Minimum ATR to avoid low-volatility conditions.

Entries are single per direction, with ATR-calculated stop losses and profit targets. Optional trailing stops, session-end exits, and global profit/loss clamps prevent overexposure. Visual cues (arrows, diamonds), alerts, and emails enhance usability.

The strategy requires at least 50 bars to trade and operates in real-time or back-test modes. It adds a 5-minute data series for multi-timeframe confirmation.

Requirements

- **NinjaTrader Version:** 8.x (tested with standard features; no custom add-ons required).
- **Chart Setup:**
 - Primary series: 1-minute bars.
 - Instrument: Any (e.g., futures like ES, NQ; adjust quantities and multipliers accordingly).
- **Data:** Real-time or historical data with volume. Ensure sufficient bars (50+ required).
- **Libraries:** Uses built-in NinjaScript indicators (EMA, RSI, SMA, ATR). No external packages needed.
- **Account:** Simulation or live; start with simulation to test.

Notes

- The algorithm's dynamic nature simplifies the optimization process by automatically adjusting internal filters.
- Strategy is designed to operate at 30 secs to 2 mins, 200 tics to 1000 tics.
- Regularly monitor performance to ensure alignment with market conditions.
- Emailing may not be processed depending on what else the system is doing.
- **Emailing Requires setup in NinjaTrader Share Services.**
- The Max Profit and Max Loss looks at unrealized profit + total profit during an entry and will clamp and stop trading if the unrealized profit + total profit are equal or greater than the settings.
- The total P and L used for the strategy will reset on the next Timer 1 start up.
- Data calculation is done on Price Change and does NOT require TICK REPLAY, do not enable it.
- Enable End of Session is only used for canceling all entries if the Broker does not support **TIF**. If you need to use this set it several minutes prior to intraday market close. This will reset when the time is less than the reset time.
- All timers use NinjaTrader's time setup, if you have chosen CME, it will use CME time.
- All timers are Sequential 24-hour timers, all logged data including P&L data will reset on Timer 1 start up, so if you are using a timer to run 5 PM to 7 AM, all your calculation data will reset again the next day when timer 1 starts again or if you disable and re enable strategy.
- The strategy uses ATR "Average True Range" to calculate profit and loss, for beginners and novices this may prove advantageous for you. You will not have to worry if you are getting the best targets the system will figure it out for you, just setup the range.
- Log/Alert audible sound occurs when an Engulfing price action occurs and does NOT mean an entry will take place, it is just a signal to the trader that a possible entry may occur due to the Engulfing bar. Please review the dynamic filters that make up the probability.

Installation

2. Import the Strategy:

- Download file named `BetEngulfingScalper3.zip`.

Import into NinjaTrader 8:

- Open NinjaTrader 8.
- Navigate to **Tools > Import > NinjaScript Add-On**.
- Select the downloaded BetEngulfingScalper3.zip file.
- Follow the prompts to complete the import.

1. Add to Chart:

- Open a 1-minute chart.
- Right-click > Strategies > Add > Select "BetEngulfingScalper3".
- Configure parameters (see below) and enable.

2. Back-testing:

- Use Strategy Analyzer: New > Back-test > Select strategy > Set date range, instrument, and parameters.

Strategy Parameters

Adjust based on instrument and risk tolerance.

EMA Parameters

Parameter	Description	Type	Default	Range
EMA Period 1 min	Period for the 1-minute chart EMA (trend filter).	int	200	1 to int.MaxValue
EMA Period 5 min	Period for the 5-minute chart EMA (multi-timeframe confirmation).	int	200	1 to int.MaxValue
EM 1 min Color	Color for the 1-min EMA plot.	Brush	Gold	Any color
EMA 5 min Color	Color for the 5-min EMA plot (drawn as horizontal lines on new bars).	Brush	Blue	Any color

ATR Filters

Parameter	Description	Type	Default	Range
ATR Period	Period for ATR (volatility measure).	int	14	1 to int.MaxValue
ATR Plot_Color	Color for ATR plot (if enabled).	Brush	DarkCyan	Any color
Enable ATR	Show ATR indicator on chart.	bool	false	true/false

System Alert Parameters

Parameter	Description	Type	Default	Range
Enable Alert	Enable sound alerts for engulfing patterns.	bool	false	true/false
Alert Sound	Path to alert sound file (relative to NinjaTrader sounds folder).			

System Parameters Colors

Parameter	Description	Type	Default	Range
Arrow Long	Color for long entry arrows.	Brush	Green	Any color
Arrow Short	Color for short entry arrows.	Brush	Red	Any color



Parameter	Description	Type	Default	Range
Bull Diamond Color	Color for bullish engulfing diamonds.	Brush	Purple	Any color
Bear Diamond Color	Color for bearish engulfing diamonds.	Brush	Violet	Any color
Alert Background Color	Background color for alerts.	Brush	Blue	Any color
Alert Text Color	Text color for alerts.	Brush	White	Any color

System Parameters

Parameter	Description	Type	Default	Range
Max Profit	Maximum cumulative profit (\$) to stop strategy.	double	500	double.MinValue to double.MaxValue
Max Loss	Maximum cumulative loss (\$) to stop strategy (negative value).	double	-500	double.MinValue to double.MaxValue
Timer End of Session	Time to close all positions at end of session.	DateTime	15:45	Any time
Enable End of Session	Enable end-of-session close.	bool	false	true/false
Email Name	Email address for notifications.	string	" customer@winners.com "	Valid email
Email Entries	Send emails on entries and P&L updates.	bool	false	true/false
Show Data BR	Display data (RSI, Volume, etc.) bottom-right.	bool	true	true/false
Show Data TR	Display data top-right (mutually exclusive with others).	bool	false	true/false
Show Data TL	Display data top-left.	bool	false	true/false
Show Data BL	Display data bottom-left.	bool	false	true/false

Dynamic Parameters

Parameter	Description	Type	Default	Range
ATR Filter Threshold	Multiplier for engulfing body > ATR (e.g., 0.7 * ATR).	double	0.7	double.MinValue to double.MaxValue
Price Filter Threshold	Multiplier for price change > ATR (e.g., 0.25 * ATR).	double	0.25	double.MinValue to double.MaxValue
ATR Min Filter Threshold	Minimum ATR value to allow entries (avoids low volatility).	double	1	double.MinValue to double.MaxValue

Timer 1

Parameter	Description	Type	Default	Range
Timer1Start	Start time for trading window.	DateTime	08:30	Any time
Timer1End	End time for trading window.	DateTime	15:15	Any time
Timer1Brush	Color for trading window rectangle on chart.	Brush	DodgerBlue	Any color
Timer1Opacity	Opacity for trading window rectangle (0-100).	int	10	0 to 100

System Profit Loss

Parameter	Description	Type	Default	Range
Order Quantity	Contract quantity per entry.	int	1	1 to int.MaxValue
Stop Loss Multiplier	ATR multiplier for stop loss (e.g., 1.5 * ATR).	double	1.5	0.1 to double.MaxValue
Profit Target Multiplier	ATR multiplier for profit target (e.g., 2.2 * ATR).	double	2.2	0.1 to double.MaxValue
Enable Trail Stop	Use trailing stop instead of fixed (in ticks).	bool	true	true/false

Notes on Parameters:

- Only one "Enable Show Data" option can be active; others auto-disable.
- Time parameters use 24-hour format (e.g., 15:45 for 3:45 PM).

How the Strategy Works

Core Logic

- **Calculate Mode:** On Price Change (reacts to every tick).
- **Data Series:** Primary (1-min), Secondary (5-min for EMA confirmation).
- **Indicators:**
 - EMA(200) on 1-min: Trend filter (close > EMA for longs, < for shorts).
 - EMA(200) on 5-min: Multi-timeframe (close > EMA for longs, < for shorts).
 - RSI(14): Momentum (>50 longs, <50 shorts).
 - SMA(10) on Volume: Surge check (current > previous SMA).
 - ATR(14): Filters (body size, price change, min ATR).

Entry Conditions

Entries only during Timer1 window, when flat, and no profit/loss fault.

- **Bullish Engulfing Long:**
 - Bullish engulfing pattern.
 - Close > 1-min EMA.
 - RSI > 50.
 - Volume surge.
 - Body > ATR * ATR Filter Threshold
 - Price change >= ATR * Price Filter Threshold
 - ATR >= ATR Min Filter Threshold
 - 5-min close > EMA.
- **Bearish Engulfing Short:** Opposite conditions.
- Draws arrow at entry (green long, red short).
- Quantity: Order_QuantityTIES.
- Stop: Close ± (ATR * Stop Loss Multiplier) or trailing (ticks).
- Target: Close ± (ATR * Profit Target Multiplier).

Exits

- Profit target or stop loss hit.
- Trailing stop (if enabled).
- End-of-session (if enabled).
- Max profit/loss clamp: Exits and stops strategy if cumulative P&L hits threshold.
- Session close: 30 seconds before session end.

Filters and Protections

- Time: Only trade in Timer1 window (visual rectangle).
- Volatility: Skips low ATR.
- Volume: Ensures momentum.
- No re-entries until flat (resets after 2 bars post-exit)
- Entries Must be Above All EMA or Below All EMA

Visual Elements

- **Arrows:** Entry signals (up green long, down red short, offset by $0.2 * ATR$).
- **Diamonds:** Engulfing patterns (purple bullish, violet bearish) – even without entry.
- **Horizontal Lines:** 5-min EMA updates on new bars.
- **Rectangles:** Trading window (Dodger Blue, low opacity).
- **Text:** P&L status (green win, red loss) and data display (RSI, ATR, etc.) if enabled.

Alerts and Notifications

- **Sound Alerts:** On engulfing patterns (if enabled). Priority: Medium/High for P&L/session.
- **Emails:** On entries (price/time/instrument) and P&L updates (if enabled). Uses NinjaTrader's Send Mail.” MUST be Set up in NinjaTrader or it will NOT work”
- **On-Screen Text:** Fixed positions for data/profit status.

Risk Management

- **Position Sizing:** Fixed quantity; scale based on account size.
- **Stops/Targets:** ATR-based for adaptive volatility.
- **Trailing:** Optional; trails by stop distance in ticks.
- **Clamps:** Global max profit/loss to cap daily exposure.
- **Session End:** Auto-exit to avoid overnight holds.
- **Error Handling:** Stops/cancels on real-time errors; requires 200 bars.

Risk Notes:

- Reward: Risk ~ Profit Target Multiplier : Stop Loss Multiplier (default 2.2:1.5 \approx 1.47:1).
- Test with slippage (default 0) and commissions.
- Avoid high-volatility events; monitor ATR min.

Back-testing and Optimization

- **Strategy Analyzer:**
 - Back-test: Set date range, enable parameters.
 - Optimize: Vary EMA periods, ATR multipliers, thresholds. Disable instantiation for speed.
- **Metrics to Watch:** Win rate, profit factor, max drawdown.
- **Historical vs. Real-Time:** Uses On Price Change; back-tests may differ from live due to tick data.
- **Tips:** Optimize on in-sample data, validate out-of-sample. Use walk-forward analysis.

Troubleshooting

- **No Entries:** Check time window, ATR min, volume condition. Ensure 50+ bars.
- **Multiple Data Displays:** Auto-resets if multiple enabled.
- **Alerts Not Working:** Verify sound file path; enable in parameters.
- **Emails Fail:** Check email setup in NinjaTrader options.
- **Performance Issues:** Reduce lookback (default 256 bars).
- **P&L Fault:** Resets on new session; monitor clamps.

Disclaimer

Futures Trading Risk Warning: The Bet Engulfing Scalper Rev 3 is a tool for technical analysis and does not guarantee trading success. Trading futures, forex, stocks, or other financial instruments involves substantial risk of loss and is not suitable for all investors. Past performance is not indicative of future results. You may lose all or more of your initial investment. The strategy provides no assurance of profitable trades and should not be relied upon as the sole basis for trading decisions. Always conduct thorough testing, including back-testing and paper trading, and implement robust risk management strategies before using the indicator in live trading. Consult with a qualified financial advisor to ensure that trading, particularly in futures, aligns with your financial goals and risk tolerance. Bars Edge Trader and the developers of Bet Engulfing Scalper Rev 3 are not responsible for any financial losses incurred while using this strategy.