

# Closing Range Thrust Scalper

Expert Advisor Documentation

## PLATFORM

MetaTrader 5 (MT5)

## TYPE

Momentum Continuation (Price Action)

## TIMEFRAME

M5 – M15

## WEBSITE

[www.algotbot.live](http://www.algotbot.live)

**⚠ Important Disclaimer** This document is for educational and informational purposes only. It does not constitute financial or investment advice. Trading forex, CFDs, and other leveraged instruments involves substantial risk of loss and is not suitable for all investors. Past backtest performance does not guarantee future results. Never trade with capital you cannot afford to lose.

## Overview

The **Closing Range Thrust Scalper** is a pure price-action, momentum-continuation Expert Advisor that uses **no indicators whatsoever** — no moving averages, no RSI, no ATR. Every decision is derived from raw candle geometry: the open, high, low, and close of recently completed bars.

Its central read is the **closing-range location** of a single freshly-closed bar — where the close sits inside that bar's own high–low range. A bar that opens low and shoves its close hard into the top of its range is the footprint of buyers decisively winning the auction within that bar. The mirror image — the close jammed into the bottom of the range — reveals sellers in control.

The EA trades **with** that thrust (continuation), not against it, and only when three independent price-action conditions all line up on the just-closed bar: a strong closing-range location, genuine range expansion versus the recent norm, and a clean break of the prior bar's structure. The stop is placed structurally just beyond the thrust bar's opposite extreme, and the target is a configurable reward-to-risk multiple of that risk distance. A spread filter keeps each scalp realistic.

**Why no indicators?** Indicators are smoothed derivatives of price that lag the market. By reading candle geometry directly, the strategy reacts to the same information without the averaging delay — the thrust bar *is* the signal, not a lagging echo of it.

## How It Works

---

On every tick the EA checks whether a new bar has just opened. It acts at most **once per freshly-closed bar**, evaluating the most recently completed candle (shift 1, the "thrust" bar) against the bar before it (shift 2, the "prior" bar) and the average range of the window behind them.

### The Three Entry Conditions

A signal requires **all three** of the following to be true on the just-closed thrust bar:

1. **Closing-range location** — the bar must close within the top `CloseLocPct%` of its own range (for a long) or the bottom `CloseLocPct%` (for a short). This proves the close was genuinely pushed to one extreme, not left mid-range like a doji.
2. **Conviction (range expansion)** — the thrust bar's high–low range must be at least `ThrustMult` × the recent average range (over `RangePeriod` bars). This ignores quiet chop and only acts on bars that genuinely expanded.
3. **Breakout of structure** — the close must clear the *prior* bar's high (long) or low (short), confirming the thrust broke local structure rather than printing inside it.

### Entry Logic

Both legs are fully symmetric:

- **BUY** — a bullish thrust bar (close > open) that closes into the top of its range and breaks the prior bar's high → scalp the continuation up. Entry at the current **Ask**.
- **SELL** — a bearish thrust bar (close < open) that closes into the bottom of its range and breaks the prior bar's low → scalp the continuation down. Entry at the current **Bid**.

### Stop Loss & Take Profit

Risk is defined structurally from the thrust bar itself:

- **Stop loss** — placed just beyond the thrust bar's opposite extreme. For a long, the stop sits below the thrust bar's low; for a short, above its high. The `StopBufferPct` input adds a cushion expressed as a percentage of the thrust bar's range, so the stop is pushed a little further past the wick.
- **Take profit** — set at `RewardRisk` × the measured risk distance. With the default `RewardRisk = 1.5`, the target is 1.5× the distance from entry to stop.

#### Worked example (long)

Suppose the thrust bar runs from a low of 1.10000 to a high of 1.10120 (a 120-point range), closes at 1.10100 (top of its range) and breaks the prior bar's high. With `StopBufferPct = 20`, the buffer is 20% × 120 pts = 24 pts, so the stop sits at 1.10000 – 0.00024 = 1.09976. If entry (Ask) is 1.10105, risk = 129 pts and the take profit at `RewardRisk = 1.5` is 1.10105 + 1.5 × 0.00129 = 1.10298.

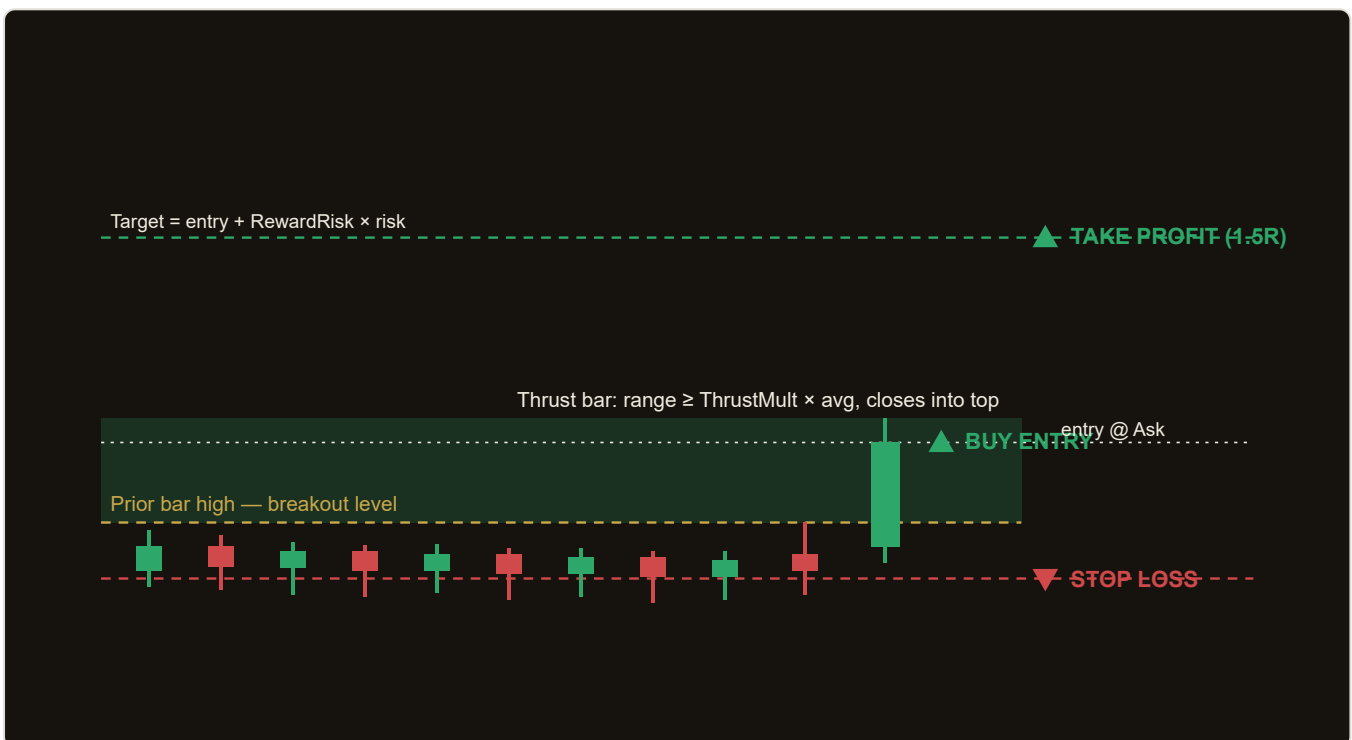
## Trade Management & Filters

- **One position at a time** — while a position with this EA's magic number is open on the symbol, no new signal is taken; the stop loss and take profit manage the exit.
- **Spread filter** — if the current spread exceeds `MaxSpreadPoints`, the signal is skipped to keep the scalp realistic. Set to `0` to disable the filter.
- **Warm-up** — the EA waits until at least `RangePeriod + 3` bars are available before evaluating, ensuring the average-range window is fully populated.

## Strategy in Action

---

The illustration below shows an example of how the strategy identifies a setup and triggers its entry and exit. This is a simplified, illustrative example for educational purposes — not real market data.



*Illustrative example only. Actual market behaviour varies.*

## Parameters

---

Parameter	Default	Description
RangePeriod	14	Number of bars in the average-range window used to measure the recent norm. Range 5–50, step 1.
ThrustMult	1.3	The thrust bar's range must be at least this multiple of the average range to qualify as a genuine expansion. Range 1.0–3.5, step 0.1.
CloseLocPct	70.0	Required closing-range location, as a percentage. The close must sit within the top (long) or bottom (short) this % of the bar's range. Range 50–95, step 5.
RewardRisk	1.5	Reward-to-risk multiple used to set the take profit relative to the measured stop distance. Range 0.5–4.0, step 0.25.
StopBufferPct	20.0	Stop-loss buffer beyond the thrust bar's extreme, expressed as a percentage of the thrust bar's range. Range 0–100, step 5.
MaxSpreadPoints	30	Skip the signal if the current spread (in points) exceeds this value. Set to 0 to disable the spread filter. Range 0–200, step 5.
Lots	0.10	Fixed trade volume in lots. Range 0.01–1.0, step 0.05.
Magic	5207	EA magic number used to identify and manage this strategy's positions on the symbol.

---

## Recommended Settings

---

As a scalping strategy that reads single-bar geometry, the EA is best suited to **lower timeframes** where thrust bars and breakouts occur frequently. Begin with the defaults and adjust gradually based on the symbol's volatility profile.

### SUGGESTED STARTING POINT

- **Timeframe:** M5 or M15 on liquid major FX pairs (e.g. EUR/USD, GBP/USD) or index CFDs.
- **RangePeriod:** 14 — a balanced window for the recent-range baseline.
- **ThrustMult:** 1.3 — raise toward 1.8–2.0 to demand stronger thrusts and fewer, higher-conviction trades.
- **CloseLocPct:** 70 — raise toward 80–90 for stricter close-at-extreme confirmation.
- **RewardRisk:** 1.5 — lower toward 1.0 for a higher hit rate, raise toward 2.0+ to let winners run further.
- **MaxSpreadPoints:** tune to your broker; tight on majors, looser on more volatile instruments.

**Tuning tip:** `ThrustMult` and `CloseLocPct` are the two main selectivity dials. Higher values mean fewer but cleaner signals; lower values mean more frequent but noisier entries. Always re-validate any change with a fresh backtest and forward test before going live.

**Position sizing:** the `Lots` input is a fixed volume and does *not* scale to account equity. Size it appropriately for your balance and risk tolerance, and verify the resulting per-trade risk against your stop distance before trading a live account.

## How to Install on MetaTrader 5

---

- 1 Copy `ClosingRangeThrustScalper.ex5` to your MT5 `MQL5\Experts\` folder
- 2 Restart MetaTrader 5 and refresh the Navigator panel
- 3 Drag the EA onto a chart matching the recommended symbol and timeframe
- 4 Configure the input parameters and click **OK**
- 5 Enable **Algo Trading** in the MT5 toolbar

**Before going live:** always run the EA in the Strategy Tester and on a demo account first. Confirm the spread filter, lot size, and stop distances behave as expected for your specific broker and symbol.

## Risk Warning

---

Trading foreign exchange, CFDs, and other leveraged financial instruments involves substantial risk of loss and is not suitable for all investors. The strategies and tools described in this document are provided for **educational purposes only** and do not constitute financial advice, investment recommendations, or solicitation to trade. Always consult a qualified financial adviser before making trading decisions. Past backtest performance is not indicative of future results.