

# Cadence Shift Runner

Expert Advisor Documentation

PLATFORM	TYPE	TIMEFRAME	WEBSITE
MetaTrader 5 (MT5)	Momentum Continuation (Breakout)	H1 (primary)	<a href="http://www.algotbot.live">www.algotbot.live</a>

**⚠ 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

**Cadence Shift Runner** is a pure price-action Expert Advisor for MetaTrader 5. It uses **no indicators whatsoever** — every decision is derived from the raw open, high, low and close of completed candles on the chart's primary timeframe. The strategy is built to ride momentum continuations: it waits for a strong directional impulse, allows the market a brief breather, and then enters on the resumption of the original move.

The name describes the three-stage logic the EA looks for in sequence:

- **Cadence** — a clean momentum impulse: a streak of several consecutive same-direction candles whose bodies dominate their ranges (high conviction) and whose combined leg is large relative to the recent average candle range (genuine expansion, not noise).
- **Shift** — a shallow pause or pullback of one to a few candles that does not break the impulse extreme and does not retrace too deeply into the leg.
- **Run** — a breakout trigger armed at the impulse extreme. When live price resumes through that level, the EA enters in the original direction, places its stop beyond the pullback, and targets a reward-to-risk multiple.

Long and short logic are exact mirror images. Only one position per magic number is held at any time, and only one direction is armed at once.

# How It Works

---

## 1. Cadence — detecting the impulse

On every completed bar the EA scans the recent candles (skipping the candidate pullback) for an impulse leg of `StreakLen` consecutive candles. For a long setup the leg must satisfy all of the following:

- **Net direction:** the newest impulse candle closes above the oldest impulse candle (a genuine up leg).
- **Clean streak:** every candle in the leg is bullish (close > open).
- **Body dominance:** the mean body-to-range ratio across the leg is at least `BodyRatio` — conviction candles, not doji clusters.
- **Expansion:** the total leg size (impulse high minus impulse low) is at least `MinImpulseRangeMult` × the average candle range over `RangeLookback` bars.

The short logic is identical with the direction inverted (bearish streak, net down leg, break of the impulse low).

## 2. Shift — validating the pullback

Once an impulse is found, the EA evaluates the one-to-`PullbackBars` candles that followed it. A valid shift must:

- **Not break the impulse extreme** — for a long, the pullback high must stay below the impulse high (the breakout has not happened yet).
- **Stay shallow** — the pullback low must not fall deeper than `RetraceMax` of the leg measured down from the impulse high.

Pullbacks are searched shallow-to-deep, and the first valid continuation found is armed.

## 3. Run — arming, entry and exits

When a valid cadence + shift is confirmed, the EA **arms a breakout trigger** rather than entering immediately:

- **Trigger:** the impulse high (long) or low (short), offset by a buffer of `StopBufferMult` × average range.
- **Protective stop:** placed beyond the pullback extreme (pullback low for longs, pullback high for shorts), offset by the same buffer.
- **Don't chase:** the setup is only armed if price still has room to reach the trigger; if price is already past it the setup is skipped.

The armed state machine then runs on every tick:

- If live price crosses the trigger, a market order is sent in the impulse direction.

- If price first breaks the protective level (pullback floor for longs / ceiling for shorts), the setup is *busted* and disarmed.
- Each armed setup expires after `ExpiryBars` completed bars if neither happens.

## STOP LOSS & TAKE PROFIT

On entry, risk is measured as the distance from the fill price to the structural stop. The take profit is set at `RewardRisk` × that risk. For example, with a default `RewardRisk` of 1.8, a 20-pip risk targets a 36-pip reward.

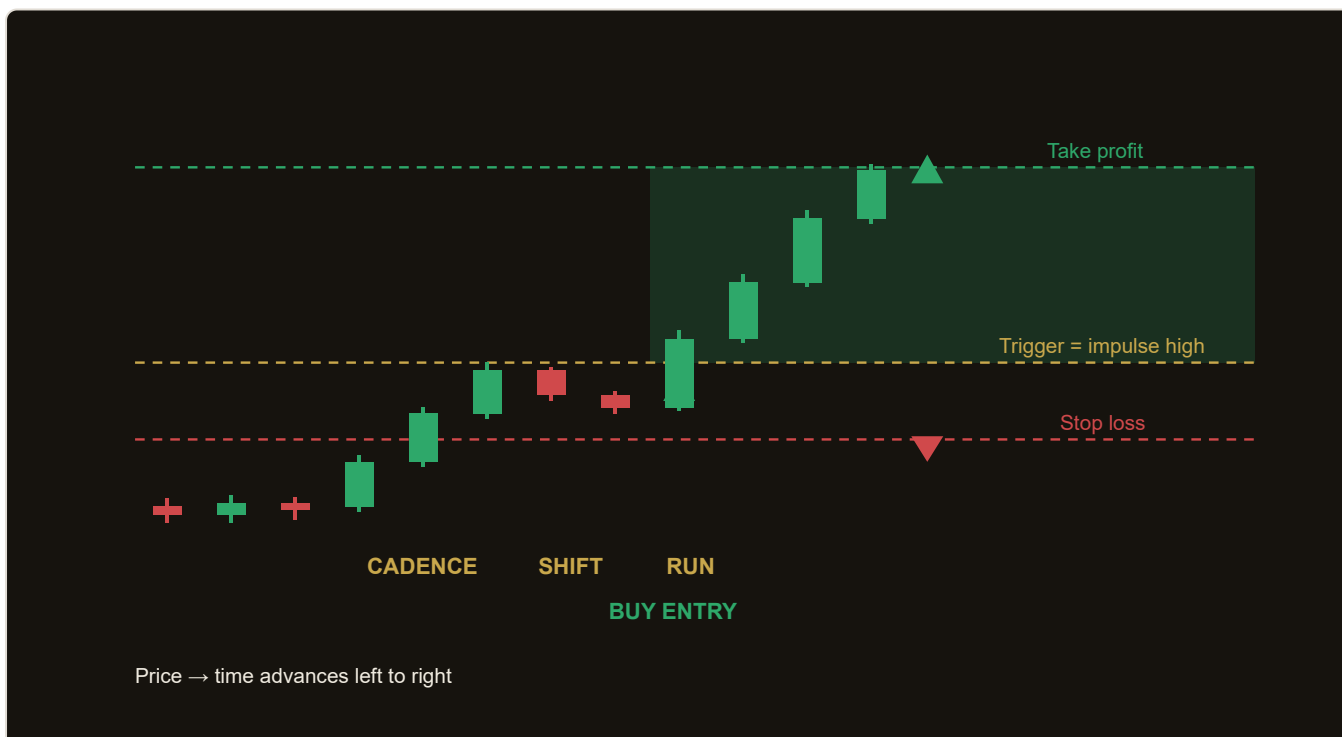
## BREAK-EVEN PROTECTION

If `BreakEvenAtR` is greater than zero, the EA moves the stop to the entry price once the trade has advanced that many multiples of the initial risk in your favour, locking out the loss on a trade that has already proven itself.

**Note:** The EA holds only one position per magic number. While a trade is open, all setups stay disarmed, and the break-even manager runs continuously until the position closes.

## 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
StreakLen	3	Number of consecutive same-direction candles required in the impulse. Range 2–6.
BodyRatio	0.55	Minimum mean body-to-range ratio of the impulse candles — the conviction filter. Range 0.30–0.80.
MinImpulseRangeMult	1.5	Minimum impulse leg size as a multiple of the average candle range — the expansion filter. Range 0.8–3.0.
RetraceMax	0.62	Maximum allowed pullback depth as a fraction of the impulse leg. Deeper pullbacks invalidate the setup. Range 0.30–0.85.
PullbackBars	2	Maximum number of pause/pullback candles to scan after the impulse. Range 1–4.
RewardRisk	1.8	Take-profit reward-to-risk multiple applied to the entry-to-stop distance. Range 0.8–4.0.
StopBufferMult	0.10	Buffer added to the trigger and stop, expressed as a multiple of the average range. Range 0.0–0.5.
RangeLookback	20	Number of bars used to compute the average candle range. Range 10–50.
ExpiryBars	3	Number of completed bars an armed setup stays valid before it expires. Range 1–8.
BreakEvenAtR	1.0	Move the stop to entry after price advances this many multiples of initial risk. Set 0 to disable. Range 0.0–3.0.
Lots	0.10	Fixed order volume in lots. Range 0.01–1.0.
Magic	0	EA magic number used to identify and manage this strategy's positions.

---

## Recommended Settings

---

Cadence Shift Runner is timeframe-agnostic because it adapts to the recent average candle range, but it is best suited to liquid, trending instruments where clean impulse legs form regularly.

- **Symbols:** Major FX pairs (EUR/USD, GBP/USD, USD/JPY) and liquid indices.
- **Timeframe:** H1 as a balanced starting point; M15 for more frequent setups, H4 for fewer but cleaner ones.

- **Risk:** Begin with the default `Lots` on a demo account and size up only after validating behaviour on your broker's spreads.

#### Example configuration — conservative trend rider (H1)

StreakLen = 3, BodyRatio = 0.60, MinImpulseRangeMult = 1.8, RetraceMax = 0.55, PullbackBars = 2, RewardRisk = 2.0, BreakEvenAtR = 1.0. This combination demands stronger, body-dominant impulses and shallower pullbacks, accepting fewer signals in exchange for higher-quality continuations.

**Tip:** Optimise `BodyRatio`, `MinImpulseRangeMult` and `RetraceMax` together — they jointly define how strict the "clean impulse + shallow pullback" pattern is. Tightening all three reduces trade count but raises the average setup quality. Always re-validate any optimised set on out-of-sample data before going live.

## How to Install on MetaTrader 5

---

- 1 Copy `CadenceShiftRunner.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

## 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.