

# Swing Step Trend Rider

Expert Advisor Documentation

## PLATFORM

MetaTrader 5 (MT5)

## TYPE

Trend-Following (Pullback Continuation)

## TIMEFRAME

H1 (timeframe-agnostic)

## WEBSITE

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

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## Overview

**Swing Step Trend Rider** is a pure price-action, trend-following Expert Advisor that uses **no indicators whatsoever** — no moving averages, no RSI, no ATR, no channels. Everything it needs is read directly off the raw candles and a set of confirmed swing pivots.

The core idea is that a healthy trend climbs like a staircase: an impulse leg, a small counter-trend pullback, then a resumption. Rather than chasing breakouts, Swing Step Trend Rider waits for that brief pullback and enters the moment the trend resumes — *buying the dip* in an uptrend and *selling the rip* in a downtrend. Because every pivot it relies on is only used once it is fully confirmed (it has the required number of bars to its right), the market structure it measures **never repaints**.

**In one line:** Identify the trend from Dow-theory swing structure, wait for a genuine counter-trend pullback, then enter on the candle that resumes the trend — with a structural stop and a fixed reward-to-risk target.

# How It Works

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## 1. Swing pivots — the only structure it measures

The EA scans closed bars for confirmed swing pivots:

- **Swing high** — a bar whose high is the strict maximum over `SwingStrength` bars on each side.
- **Swing low** — a bar whose low is the strict minimum over `SwingStrength` bars on each side.

A pivot is only used once it is **confirmed** — meaning it already has `SwingStrength` bars to its right. Those right-hand bars guarantee the pivot can never change after the fact, so the structure is strictly non-repainting.

## 2. Trend filter — classic Dow theory

Using only the last two confirmed swing highs and the last two confirmed swing lows, the EA classifies the trend with pure structure (no indicator):

- **Uptrend** = Higher High *and* Higher Low (HH + HL) — both the most recent swing high and swing low are above the prior ones.
- **Downtrend** = Lower High *and* Lower Low (LH + LL) — both are below the prior ones.

If the structure is neither a clean uptrend nor a clean downtrend, no trade is taken.

## 3. Entry — pullback then resumption (continuation, not breakout)

The EA acts only once per newly-closed bar, and only when there is no existing position for its magic number. The *pullback window* is the `PullbackBars` candles immediately before the signal (just-closed) bar.

### LONG — BUY THE DIP

- The market is in a confirmed **uptrend**.
- The pullback is a genuine dip: the last pullback bar is **bearish** and the pullback low dips **below** the bar just before the pullback began.
- The signal bar **resumes**: it closes **bullishly** and its close is back **above the entire pullback's high**.

### SHORT — SELL THE RIP

- The market is in a confirmed **downtrend**.
- The pullback is a genuine rally: the last pullback bar is **bullish** and the pullback high pokes **above** the bar just before the rally began.
- The signal bar **resumes**: it closes **bearishly** and its close is back **below the entire pullback's low**.

#### 4. Exit — structural stop, fixed reward target

Both the stop loss and take profit are set the instant the trade opens, and the position is then left to be managed by those levels (one position per magic at a time).

- **Stop loss** is **structural** — placed just beyond the pullback extreme the trade is bouncing off (below the dip low for longs, above the rally high for shorts), buffered by `StopBufferFrac` of the active swing range. Because the buffer scales with the swing range, it adapts to any symbol or timeframe without needing a fixed point size.
- **Take profit** is a fixed `RewardRatio` multiple of that structural stop distance, letting trend winners run.

```
swingRange = recentSwingHigh - recentSwingLow
```

```
buffer      = StopBufferFrac × swingRange
```

```
LONG:  SL = pullbackLow - buffer
```

```
       risk = entry - SL
```

```
       TP = entry + RewardRatio × risk
```

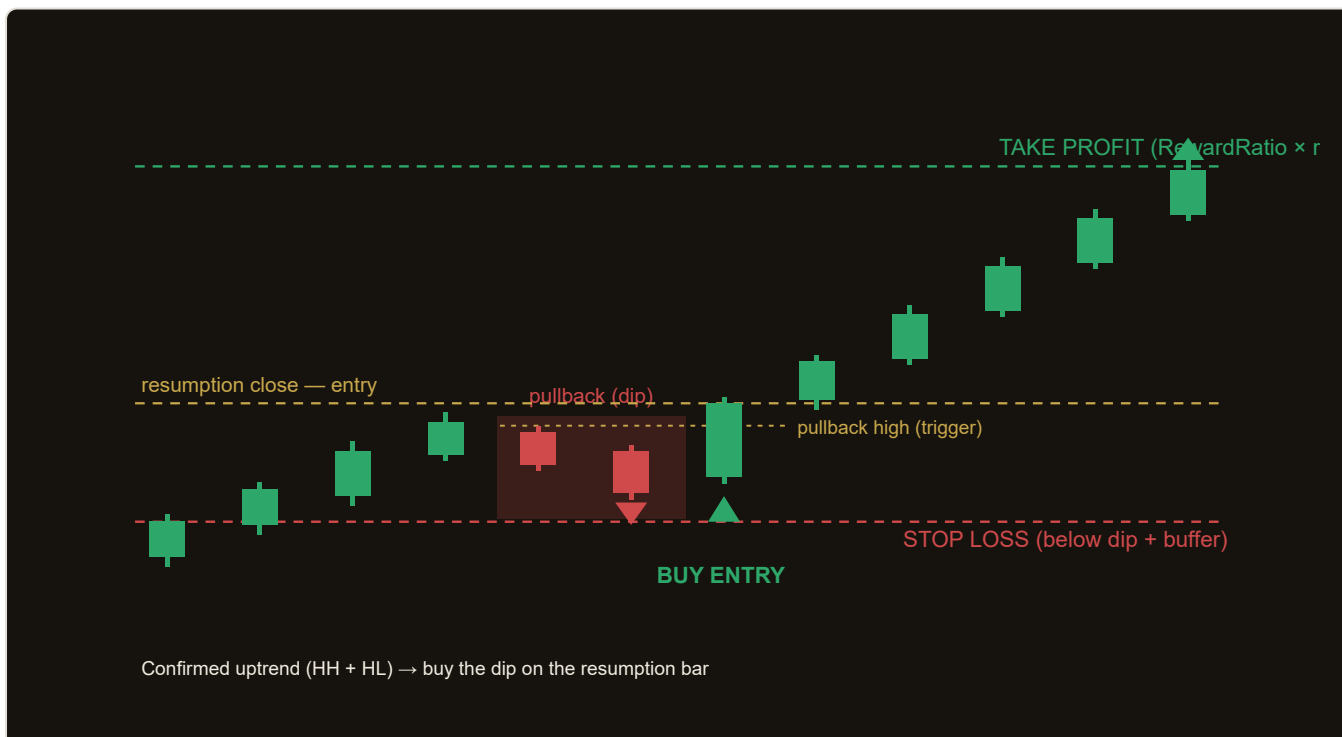
```
SHORT: SL = pullbackHigh + buffer
```

```
       risk = SL - entry
```

```
       TP = entry - RewardRatio × risk
```

## 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.



## Parameters

Parameter	Default	Description
SwingStrength	2	Bars required on each side of a bar for it to qualify as a confirmed swing pivot. Higher values find larger, less frequent pivots. Integer, range 1–5, step 1.
PullbackBars	2	How many candles the counter-trend pullback may span before the resumption bar. Integer, range 1–4, step 1.
StopBufferFrac	0.10	Stop buffer placed beyond the pullback extreme, expressed as a fraction of the active swing range. Numeric, range 0.00–1.00, step 0.05.
RewardRatio	2.00	Take-profit distance as a multiple of the structural stop distance (reward-to-risk). Numeric, range 1.00–6.00, step 0.50.
Lots	0.10	Trade volume in lots. Numeric, range 0.01–1.00, step 0.05.
Magic	8207	Magic number used to identify and manage this EA's positions. Integer, range 0–9,999,999, step 1.

## Recommended Settings

The strategy is timeframe-agnostic and will run on whatever symbol and timeframe it is attached to. Its natural home is a trending instrument on an intermediate timeframe.

- **Symbol:** a trending FX major or metal — e.g. EURUSD or XAUUSD.
- **Timeframe:** H1 as the default playground; the swing logic adapts to any timeframe.
- **SwingStrength & PullbackBars:** start at the defaults (2 and 2). Increase `SwingStrength` to trade only larger, cleaner swings; increase `PullbackBars` to allow deeper, multi-candle pullbacks.
- **RewardRatio:** 2.00 keeps a favourable reward-to-risk while letting trend winners run. Lower it for a higher hit rate, raise it to ride extended trends.

### Example setup — EURUSD H1

In a confirmed uptrend, price makes a two-bar bearish dip below the prior bar's low. The next bar closes bullishly back above the dip's high → a long is opened at the ask. The stop sits just below the dip low (buffered by 10% of the swing range); the target is placed 2× that risk above the entry.

**Tip:** Because the stop buffer scales with the measured swing range rather than a fixed pip value, you do not need to re-tune `StopBufferFrac` when switching between symbols or timeframes.

## How to Install on MetaTrader 5

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- 1 Copy `SwingStepTrendRider.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

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