

# Vwap Slope Rsi Continuation

Expert Advisor Documentation

## PLATFORM

MetaTrader 5 (MT5)

## TYPE

Trend Continuation (Pullback)

## TIMEFRAME

M5 – M30

## 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

Vwap Slope Rsi Continuation is a **trend-following pullback** Expert Advisor that pairs two of the most widely-watched institutional tools — **VWAP** and **RSI** — to trade *with* the prevailing trend rather than against it. It is deliberately the opposite side of the coin from a VWAP mean-reversion fade: instead of betting that a stretch away from VWAP snaps back, this strategy uses VWAP to define the prevailing direction and then **buys shallow dips** in an uptrend and **sells shallow rallies** in a downtrend, riding the continuation move.

Because the engine runs a single symbol and timeframe, a true session-anchored VWAP (which needs a session reset) is approximated by a **rolling, volume-weighted VWAP** computed over the last `VwapPeriod` closed bars. Each bar contributes its typical price  $(High + Low + Close) / 3$  weighted by that bar's volume:

$$VWAP = \frac{\sum(\text{typicalPrice} \times \text{volume})}{\sum(\text{volume})}$$

Every decision is taken once per **freshly closed bar**, so signals never re-paint within an in-progress candle. The EA holds at most one position per magic number and lets a volatility-scaled stop and target manage the exit.

**Core idea:** the *slope* of the rolling VWAP tells you which way order flow is leaning, and a short-lived RSI dip tells you *when* the pullback within that trend is exhausted. Combining them means entering as momentum re-ignites in the trend's direction — not chasing strength, but buying the moment a dip ends.

## How It Works

---

### 1. Trend Bias — VWAP Slope

The EA computes the rolling VWAP twice: once over the window ending at the current bar ( `vwapNow` ) and once over the window ending `SlopeLookback` bars earlier ( `vwapPast` ). Comparing the two yields the slope:

- **Rising VWAP** ( `vwapNow > vwapPast` ) with price trading above it → **uptrend**, only longs allowed.
- **Falling VWAP** ( `vwapNow < vwapPast` ) with price trading below it → **downtrend**, only shorts allowed.

Trading only with the value-line slope keeps the strategy on the right side of the dominant order flow.

### 2. Pullback Timing — RSI Cross

Inside a trend, momentum oscillates: price pulls back, RSI dips, then momentum re-ignites as the trend resumes. The EA does **not** buy strength — it buys the moment a dip *ends*. A long requires RSI to have been at or below `RsiPullbackLevel` on the prior closed bar and to **cross back up** through it on the current bar (the dip is exhausted, buyers returning). The short is the exact mirror, using the symmetric level `100 - RsiPullbackLevel`.

### 3. Entry Rules

On each newly closed bar, after the trend and pullback conditions align, an entry is sent at the current market price:

- **LONG** — price closes *above a rising VWAP* **and** RSI crosses up through `RsiPullbackLevel` (e.g. 45). Buy at the Ask.
- **SHORT** — price closes *below a falling VWAP* **and** RSI crosses down through `100 - RsiPullbackLevel` (e.g. 55). Sell at the Bid.

### 4. Exit — ATR-Scaled Stop & Target

Risk is fully volatility-scaled by ATR, so the EA adapts to changing market conditions automatically:

```
stopDistance = AtrStopMult × ATR
```

```
targetDistance = AtrTpMult × ATR
```

```
LONG : SL = entry - stopDistance      TP = entry + targetDistance
```

```
SHORT: SL = entry + stopDistance      TP = entry - targetDistance
```

Because a continuation move is expected to travel, the take-profit is a multiple of the risk rather than VWAP itself. With the defaults ( `AtrStopMult = 1.5` , `AtrTpMult = 2.5` ) each trade targets roughly a **1.67 : 1** **reward-to-risk** ratio. There is no trailing logic — once placed, the fixed SL and TP manage the entire exit.

## 5. Filters

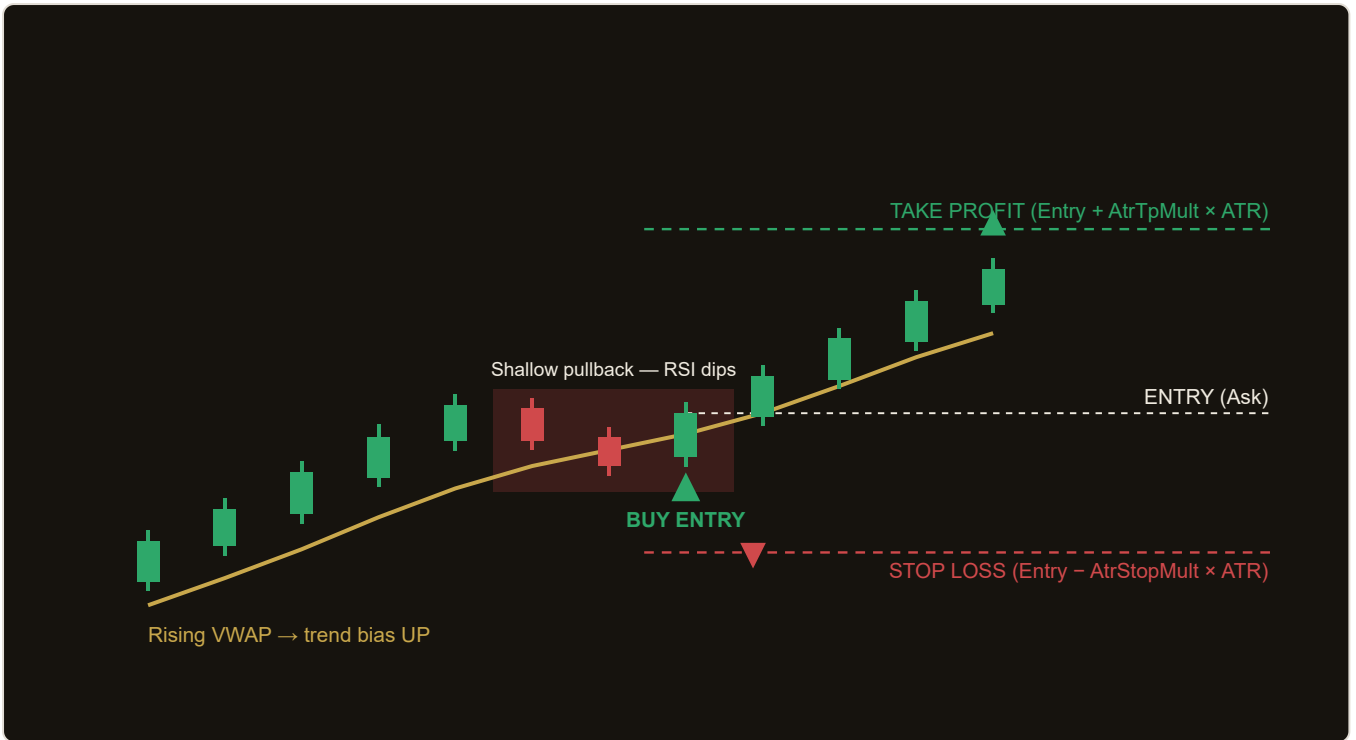
- **One position per magic** — a new entry is blocked while a position with the same magic number is already open.
- **Spread filter** — entries are skipped whenever the current spread (in points) exceeds `MaxSpreadPoints` , protecting against costly execution.
- **History warm-up** — the EA waits until it has enough closed bars for both VWAP windows, the prior RSI value, and ATR before trading.

**Bar discipline:** in MQL5 the just-closed bar is shift 1 (shift 0 is still forming). The signal close, both VWAP windows, RSI and ATR are all read at shift  $\geq 1$ , mirroring the C# closed-bar history exactly so backtest and live behaviour match.

## 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.*

### Reading the chart

Price trends up along a rising VWAP. A shallow three-bar pullback pushes RSI down to the pullback level; on the next bar RSI crosses back up and price closes above the rising VWAP — the EA buys at the Ask. The stop sits  $\text{AtrStopMult} \times \text{ATR}$  below entry, and the continuation carries price to the take-profit at  $\text{AtrTpMult} \times \text{ATR}$  above entry.

## Parameters

---

Parameter	Default	Description
VwapPeriod	30	Rolling window (bars) for the volume-weighted VWAP value line. Range 10–120, step 5.
SlopeLookback	5	How many bars back the second VWAP window ends, used to measure the VWAP slope. Range 1–30, step 1.
RsiPeriod	14	RSI lookback used to time the pullback. Range 5–30, step 1.
RsiPullbackLevel	45	LONG fires when RSI crosses up through this; SHORT uses <code>100 - this</code> . Lower values demand deeper pullbacks before re-entry. Range 30–50, step 1.
AtrPeriod	14	ATR lookback used to size the stop and target. Range 5–30, step 1.
AtrStopMult	1.5	Stop-loss distance as a multiple of ATR. Range 0.5–4.0, step 0.1.
AtrTpMult	2.5	Take-profit distance as a multiple of ATR. Range 0.5–6.0, step 0.1.
MaxSpreadPoints	80	Skip new entries when the current spread (points) is wider than this. Range 5–300, step 5.
Lots	0.10	Order volume (lots). Range 0.01–1.0, step 0.05.
Magic	70015	Magic number identifying this EA's positions. Range 0–9,999,999, step 1.

---

## Recommended Settings

---

The strategy is designed for trending instruments where intraday VWAP trend-days and shallow pullbacks are common.

- **Symbols:** a trending FX major or an index — for example `EURUSD`, `US500`, or `XAUUSD`.
- **Timeframe:** M5 to M30. The EA trades whatever timeframe the chart is set to at backtest/run time (it uses the primary timeframe).
- **RsiPullbackLevel:** keep near the default 45 for frequent shallow re-entries; lower it toward 30 to demand deeper, higher-quality pullbacks at the cost of fewer trades.
- **VwapPeriod & SlopeLookback:** a longer `VwapPeriod` with a larger `SlopeLookback` produces a smoother, slower trend filter; shorten both for faster, more reactive bias.
- **ATR multiples:** the default 1.5 / 2.5 stop-to-target favours letting continuation moves run. Widen `AtrStopMult` on noisier instruments to avoid premature stop-outs.

**Tip:** always run a fresh optimization pass on the specific symbol, broker, and timeframe you intend to trade. VWAP slope sensitivity and ATR distances behave very differently across an FX major, an index, and a metal — the defaults are a starting point, not a finished configuration.

**Note:** this is a single-symbol approximation of session VWAP using a rolling window, not a true session-anchored VWAP. On instruments with strong session resets or thin, gappy volume the rolling value line may lag the move — validate behaviour in the Strategy Tester before going live.

## How to Install on MetaTrader 5

---

- 1 Copy `VwapSlopeRsiContinuation.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.