

Momentum Glide Pullback

Expert Advisor Documentation

PLATFORM

MetaTrader 5 (MT5)

TYPE

Trend Continuation (Pullback)

TIMEFRAME

H1 (recommended)

WEBSITE

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

Momentum Glide Pullback is a trend-continuation Expert Advisor that rides established trends by re-entering on shallow pullbacks. Rather than chasing fresh breakouts, it waits patiently inside a confirmed trend for momentum to cool, then “glides” back in with the trend the moment momentum re-ignites in the trending direction.

An established trend is defined by a fast EMA positioned on the trend side of a slow EMA whose own slope agrees — the slow EMA must be rising for longs and falling for shorts. Within that trend, the EA looks for a brief pullback that pulls the RSI oscillator back across its midline, and then enters when RSI crosses the midline again in the trend direction on a bar that closes back beyond the fast EMA. Stop-loss and take-profit distances are ATR-scaled, so risk automatically adapts to the volatility of the selected symbol and timeframe.

The strategy is fully symmetric: the short logic is an exact mirror image of the long logic, with the RSI midline and exhaustion cap reflected around 50.

How It Works

All logic is evaluated once per **newly closed bar** (shift 1). The EA appends each just-closed bar to a rolling buffer, recomputes its indicators, and checks for a signal — it never acts on the still-forming current bar. Only

the primary chart symbol and timeframe are read.

1. Trend Filter (EMA structure & slope)

The EA first establishes whether a trend is in force using two EMAs and the slope of the slow EMA:

- **Uptrend:** fast EMA is above the slow EMA *and* the slow EMA is higher than it was `SlopeLookback` bars ago (rising).
- **Downtrend:** fast EMA is below the slow EMA *and* the slow EMA is lower than it was `SlopeLookback` bars ago (falling).

Requiring both a directional EMA stack *and* an agreeing slope filters out flat, whipsawing markets where the two EMAs merely cross without a real trend behind them.

2. Pullback & Momentum Trigger (RSI)

Inside a valid trend the EA watches RSI for a shallow pullback followed by a re-acceleration:

- **Long trigger:** RSI on the previous bar was *below* the midline (`RsiMid` , default 50), and RSI on the closed bar has crossed back up to or above the midline — but is still below the exhaustion cap (`RsiCap` , default 72).
- **Short trigger:** the mirror image, using a reflected midline (`100 - RsiMid`) and reflected cap (`100 - RsiCap`).

The exhaustion cap prevents entries when momentum is already stretched (overbought for longs, oversold for shorts), keeping the EA out of late, poor-reward setups.

3. Entry Confirmation (candle & EMA reclaim)

A signal only fires when the closed bar also confirms the direction with price:

- **Long:** the closed bar is *bullish* (close > open) and its close is back *above* the fast EMA.
- **Short:** the closed bar is *bearish* (close < open) and its close is back *below* the fast EMA.

This ensures the pullback has genuinely resolved in the trend's favour before committing to the trade.

Note — one position at a time. The EA holds at most a single position per magic number (`730501`). While a trade is open on the symbol, no new entries are taken until it closes.

4. Exits — ATR-Scaled Stop-Loss & Take-Profit

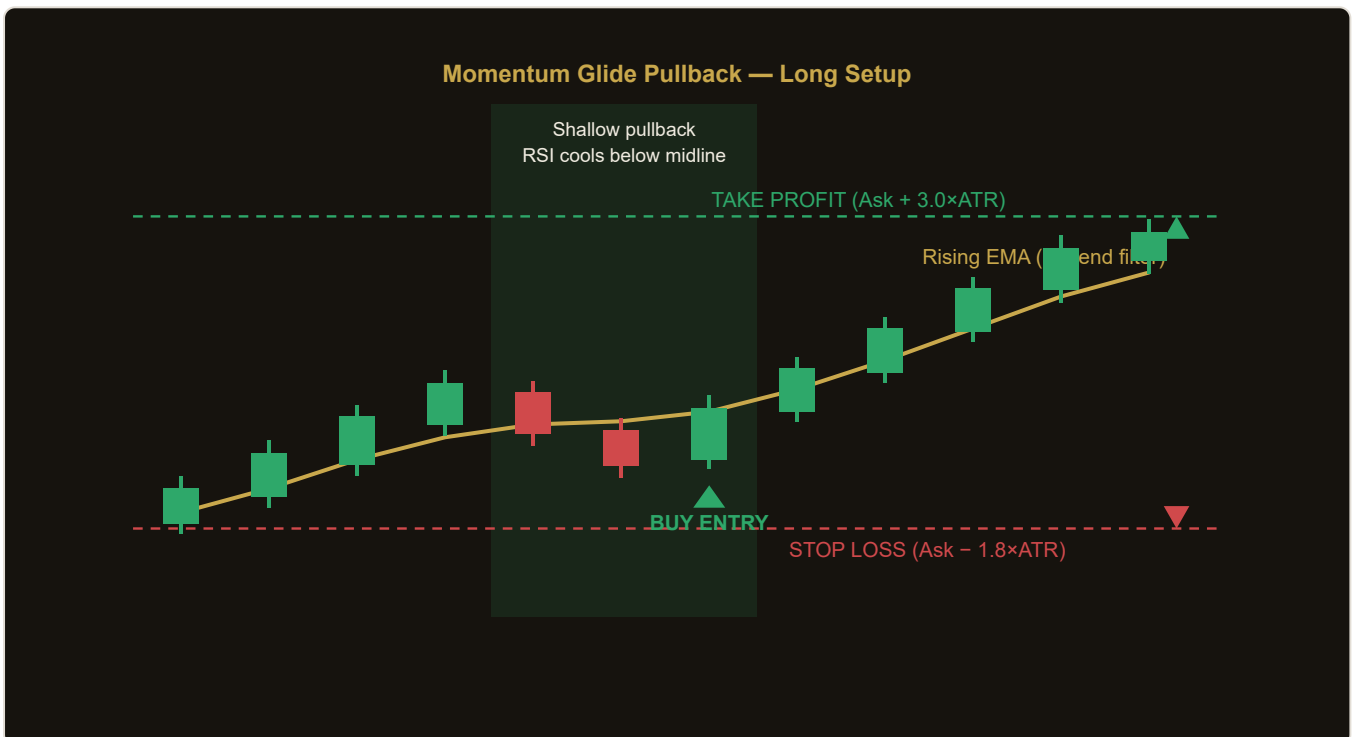
When an order is sent, both protective levels are attached immediately and sized from the current ATR value on the closed bar:

Long: $SL = Ask - AtrSlMult \times ATR$ $TP = Ask + AtrTpMult \times ATR$
Short: $SL = Bid + AtrSlMult \times ATR$ $TP = Bid - AtrTpMult \times ATR$

With the default multipliers ($AtrSlMult = 1.8$, $AtrTpMult = 3.0$) each trade targets roughly a **1.67 : 1 reward-to-risk ratio**. Because the levels scale with ATR, the same settings produce tighter stops in calm markets and wider stops in volatile ones. Trades exit when either the stop-loss or take-profit is hit; there is no time-based or trailing exit.

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
EmaFast	20	Fast EMA period. Defines the near-term trend line and the level price must reclaim to confirm an entry. Range 5–60, step 1.
EmaSlow	50	Slow EMA period. The trend backbone; its position relative to the fast EMA and its slope define trend direction. Range 20–200, step 5.
SlopeLookback	5	Number of bars back used to measure the slow-EMA slope (rising = uptrend, falling = downtrend). Range 1–20, step 1.
RsiPeriod	14	Look-back period for the RSI momentum oscillator. Range 5–30, step 1.
RsiMid	50.0	RSI midline that the pullback must cross back up through to trigger a long. Mirrored to $100 - \text{RsiMid}$ for shorts. Range 40–60, step 1.
RsiCap	72.0	Exhaustion cap. Entries are skipped when RSI is already at or above this level (overbought). Mirrored to $100 - \text{RsiCap}$ for shorts. Range 60–85, step 1.
AtrPeriod	14	ATR look-back used to size volatility-based stops and targets. Range 5–30, step 1.
AtrSImult	1.8	Stop-loss distance multiplier: SL is placed $\text{AtrSImult} \times \text{ATR}$ away from entry. Range 0.5–5.0, step 0.1.
AtrTpMult	3.0	Take-profit distance multiplier: TP is placed $\text{AtrTpMult} \times \text{ATR}$ away from entry. Range 0.5–8.0, step 0.1.
Lots	0.10	Fixed order volume in lots for each trade. Range 0.01–2.0, step 0.01.
Magic	730501	Unique magic number identifying this EA's trades. Only one position per magic number is held at a time.

Recommended Settings

The default parameters are a balanced starting point suited to liquid instruments on intraday timeframes. As a trend-continuation system, the EA performs best on markets that trend cleanly rather than range for extended periods.

SYMBOLS

- **Major FX pairs** — EUR/USD, GBP/USD, USD/JPY, AUD/USD
- **Index CFDs** — US500, US30, NAS100 (which tend to produce sustained trends)

TIMEFRAME

- **H1** is the recommended primary timeframe, offering a good balance between signal quality and frequency.
- **M30 – H4** can also be used; expect fewer, higher-quality signals on higher timeframes.

Example configuration — EUR/USD H1

EmaFast 20, EmaSlow 50, SlopeLookback 5, RsiPeriod 14, RsiMid 50, RsiCap 72, AtrPeriod 14, AtrSIMult 1.8, AtrTpMult 3.0, Lots 0.10. This yields a roughly 1.67 : 1 reward-to-risk profile with stops and targets that adapt to prevailing volatility.

Tuning tips. Widen `AtrSIMult` if trades are being stopped out by normal noise; raise `EmaSlow` or `SlopeLookback` to demand a stronger, more established trend before entering; lower `RsiCap` to enter earlier in the momentum swing (fewer, but less-stretched setups). Always re-test any change on the Strategy Tester before going live.

Position sizing. `Lots` is a fixed volume — it does not auto-scale with account balance. Choose a lot size appropriate to your account equity and risk tolerance, and confirm it against the ATR-based stop distance for your chosen symbol.

How to Install on MetaTrader 5

- 1 Copy `MomentumGlidePullback.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 validate the EA in the MT5 Strategy Tester and on a demo account first. Confirm that indicator handles initialise correctly and that stop-loss / take-profit levels appear as expected on your broker's 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.