

Swing Level Fvg Confluence

Expert Advisor Documentation

PLATFORM	TYPE	TIMEFRAME	WEBSITE
MetaTrader 5 (MT5)	Price-Action Continuation	M15	www.algoBot.live

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Overview

Swing Level Fvg Confluence is a pure price-action Expert Advisor that uses *no indicators of any kind* — no moving averages, no RSI, no ATR, nothing. Instead it reads raw market geometry and acts only where two independent footprints line up on the same spot.

The two footprints are:

- **Fair Value Gap (FVG)** — a three-candle imbalance where one impulsive middle candle moves so fast that the first candle's wick never overlaps the third candle's wick, leaving an untraded price pocket the market tends to revisit before the impulse resumes.
- **Swing Support / Resistance** — horizontal levels harvested from confirmed fractal swing pivots (a high or low that tops/bottoms every bar within **PivotLeg** on both sides). These are the structural floors and ceilings price actually reacts to.

The edge is the **confluence**: the EA only acts on a gap whose base sits right on top of a swing level — a bullish gap launched off a swing *support* (demand stacked on a floor) or a bearish gap dropped off a swing *resistance* (supply stacked on a ceiling). A lone gap or a lone level is ignored.

Direction is **continuation**: after such a gap forms, the EA waits for price to retrace and tap it for the *first time*, confirms the candle closes back beyond the gap base (the level held), then rides the move. The take-profit is

a genuine **structural target** — the next opposing swing level — so both entry and exit are anchored to real support and resistance, not an arbitrary multiple.

No point-size dependence. Every threshold (minimum gap size, confluence band, stop buffer) is scaled by a plain mean candle range computed inline from raw highs and lows. That means the EA adapts to any symbol or volatility regime automatically. It was built with EUR/USD and XAU/USD on M15 in mind but runs on any liquid instrument and timeframe.

How It Works

1. Volatility Scale

On each freshly-closed bar, the EA averages the raw high-minus-low range over the last `SrLookback` candles. This single mean range value feeds every adaptive threshold below, so no parameter is ever expressed in points or pips.

2. Harvest Swing Levels

Within the lookback window the EA scans for confirmed fractal pivots. A bar is a swing **high** (resistance) if its high tops every bar within `PivotLeg` on both sides, and a swing **low** (support) if its low bottoms them. Only closed bars are used, which keeps the levels non-repainting.

3. Detect a Level-Backed Fair Value Gap

The EA walks recent candle trios (newest, impulse, oldest) up to `ZoneExpiry` bars back, looking for a valid imbalance:

- **Bullish gap** — the oldest candle's high is below the newest candle's low and the middle candle closed up. The gap base (far edge) is the oldest high; the near edge is the newest low.
- **Bearish gap** — the mirror: the oldest low is above the newest high and the middle candle closed down.

A gap qualifies only when it passes three tests:

- **Size:** the gap height is at least `MinGapFactor` × mean range (rejects noise gaps).
- **Confluence:** a swing support (for bulls) or swing resistance (for bears) sits in the gap's base region, within a band of `ConfluenceFrac` × mean range.
- **Freshness:** between formation and the candidate tap, no earlier candle dipped into the gap (we want the *first* tap) and none closed beyond its base (which would have filled or invalidated it).

4. Entry — The First Tap That Holds

The candidate trigger is the just-closed bar. For a long, that bar must **tap** the gap (its range overlaps the zone) and **hold** (it closes back above the gap base). When both are true the EA buys at Ask. Shorts are the exact mirror: the trigger taps the gap and closes back below the base, and the EA sells at Bid.

5. Stop Loss & Structural Take Profit

- **Stop loss** — placed just beyond the gap base or the trigger candle's extreme (whichever is further), plus a buffer of `StopBufferFrac` × mean range. For longs the stop is below; for shorts, above.
- **Take profit** — the nearest opposing swing level beyond entry: the closest swing resistance above for a long, the closest swing support below for a short. If no structural target exists, the trade is skipped entirely.

6. Trade Filters

- **Reward:risk gate** — the distance to the structural target divided by the stop distance must be at least `MinRewardRisk`, otherwise the setup is passed over.
- **Spread filter** — entries are skipped when the current spread exceeds `MaxSpreadPoints`.
- **One position at a time** — only a single open position per magic number is allowed; the structural stop and target manage the exit, so there is no separate trade-management logic.

Worked long example

An impulsive up-candle leaves a fair value gap, and its base lands directly on a confirmed swing low (support). Price drifts higher, then retraces. The next closed candle dips into the gap pocket for the first time and closes back above the base — the level held. The EA buys at Ask, parks the stop just below the gap base minus a buffer, and targets the next swing high above. If that target offers at least the required reward:risk, the trade is taken.

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
Lots	0.10	Order volume in lots. Range 0.01–1.00, step 0.01.
PivotLeg	3	Bars required on each side to confirm a fractal swing pivot. Larger values yield fewer but more significant levels. Range 2–8, step 1.
SrLookback	60	How many recent closed bars to scan for swing levels and the mean-range volatility scale. Range 20–200, step 10.
MinGapFactor	0.30	Minimum gap height as a fraction of mean candle range; rejects noise gaps. Range 0.05–1.50, step 0.05.
ConfluenceFrac	0.75	Confluence band — how close (fraction of mean range) a swing level must sit to the gap base to count as backing the gap. Range 0.10–3.00, step 0.05.
ZoneExpiry	15	Maximum age in bars of a still-unfilled gap before it is considered stale and ignored. Range 2–40, step 1.
StopBufferFrac	0.25	Stop buffer beyond the gap base or signal-candle extreme, as a fraction of mean range. Range 0.00–1.00, step 0.05.
MinRewardRisk	1.50	Minimum reward:risk to the structural target; setups below this are skipped. Range 0.50–5.00, step 0.10.
MaxSpreadPoints	80	Skip entries when the spread (in points) is wider than this. Range 5–300, step 5.
Magic	9170	Magic number identifying this EA's positions. Range 0–9,999,999, step 1.

Recommended Settings

The defaults are tuned for liquid instruments on the M15 timeframe and provide a balanced starting point. Adjust to suit your symbol, broker and risk tolerance.

- **Symbols:** EUR/USD or XAU/USD (the design targets), or any liquid instrument with clean structure.
- **Timeframe:** M15 as the primary; the adaptive scaling lets it run on other timeframes too.
- **Risk:** keep `Lots` proportionate to your account — start small and size up only after live forward-testing.
- **Selectivity:** raise `PivotLeg` or `MinGapFactor` for fewer, higher-quality signals; lower them for more frequent setups.
- **Spread discipline:** set `MaxSpreadPoints` to match your broker's typical spread so entries are not taken in poor conditions.

Tip. Because every threshold is scaled by the mean candle range, you usually do not need to re-tune the fraction-based parameters (`MinGapFactor` , `ConfluenceFrac` , `StopBufferFrac`) when switching symbols — they adapt automatically. Always validate on the Strategy Tester before going live.

How to Install on MetaTrader 5

- 1 Copy `SwingLevelFvgConfluence.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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