

# Round Level Rejection Reversal

Expert Advisor Documentation

## PLATFORM

MetaTrader 5 (MT5)

## TYPE

Mean Reversion / Price Action

## TIMEFRAME

M5 · M15 · 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

**Round Level Rejection Reversal** is a pure price-action Expert Advisor that uses **no indicators of any kind** — no moving averages, RSI, ATR, Bollinger Bands, or anything else. Instead it trades the oldest and most universal form of horizontal support and resistance there is: **psychological round numbers**, the ".00" and ".50" "figure" levels such as 1.1000, 1.1050, and 1.1100 on EURUSD, or 1950.00 and 1950.50 on Gold.

These prices are known in advance and never repaint: they sit on a fixed grid spaced `LevelStepPips` apart. Limit and stop clusters, option barriers, and stop-runs congregate at these figures, so price routinely pokes a round number and snaps back. That snap-back is the entire edge of the strategy.

Crucially, the EA does **not** trade a level simply because price touched it. It waits for the market to *prove* the level held by printing a single-candle **pin-bar rejection** — a candle whose wick pierces the figure but whose body closes back on the original side, leaving a long rejecting tail. The signal candle's wick defines a tight structural stop, and the take-profit is a fixed multiple of that stop distance, giving every trade a controlled, known reward-to-risk profile.

**Why round numbers?** Because everyone can see them. Traders cluster their orders at "obvious" prices like 1.2000 or 2000.00, creating dense pools of liquidity. When price reaches a figure and is rejected, that rejection is visible and repeatable — and because the grid is purely mathematical (derived from the symbol's pip size), the same logic adapts to any FX pair, metal, index, or crypto with no hard-coded price scales.

# How It Works

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## The round-number grid

On initialisation the EA reads the symbol's `Digits` and `Point` to compute one pip (10 points on 3/5-digit FX quotes, otherwise 1 point). The grid of round levels is then spaced  $\text{LevelStepPips} \times \text{pip}$  apart. With the default `LevelStepPips = 50`, the grid lands on every ".00" and ".50" figure. The nearest figure below a candle's close is its potential *support*; the nearest figure above is its potential *resistance*.

## Acting once per closed bar

The EA evaluates signals only on the **open of a new bar**, examining the bar that has just closed (shift 1). This keeps the logic deterministic and avoids reacting to an unfinished, still-moving candle. Before looking for a setup it applies two gates:

- **One position per magic** — if a trade tagged with the strategy's `Magic` number is already open on the symbol, no new entry is taken. The structural stop and fixed take-profit manage the exit.
- **Spread filter** — if the current spread (in points) exceeds `MaxSpreadPoints`, new entries are skipped to avoid trading in poor conditions.

## Long entry — figure held as support

A long is taken when the just-closed candle shows a **lower-wick pin rejection** of a round level:

- The candle's **low pierces down to or through** the nearest figure at/below the close.
- The candle **closes back above** that figure (the level held as support).
- The close still **hugs the level** — within `TouchPips` of it — so the entry is tight to the figure, not far past it.
- The **lower wick** is at least `WickFrac` of the candle's full high-to-low range, confirming the rejection was dominant.

Entry is at the Ask. The stop-loss is placed `StopBufferPips` below the candle's low (just beyond the rejecting wick), and the take-profit is set at  $\text{RewardRatio} \times (\text{entry} - \text{stop})$  above the entry.

## Short entry — figure held as resistance

The short rule is the exact mirror image, using an **upper-wick pin rejection**:

- The candle's **high pierces up to or through** the nearest figure at/above the close.
- The candle **closes back below** that figure (the level held as resistance).
- The close is within `TouchPips` of the level, and the **upper wick** is at least `WickFrac` of the candle's range.

Entry is at the Bid. The stop-loss is placed `StopBufferPips` above the candle's high, and the take-profit is set at  $\text{RewardRatio} \times (\text{stop} - \text{entry})$  below the entry.

## Stop-loss, take-profit and broker limits

Because the stop sits just beyond the wick where the rejection physically happened, it is a genuine *structural* stop — if price returns through the level, the setup is invalidated and the trade is closed. The take-profit is always a fixed multiple of that stop distance, so the reward-to-risk ratio is constant regardless of how large or small the signal candle was.

Before sending an order the EA checks the broker's minimum stop distance ( `SYMBOL_TRADE_STOPS_LEVEL` ). If the resulting stop or target would be too close to the market to be legal, the trade is skipped rather than rejected by the server. Volumes are normalised to the symbol's lot step and clamped to its min/max limits.

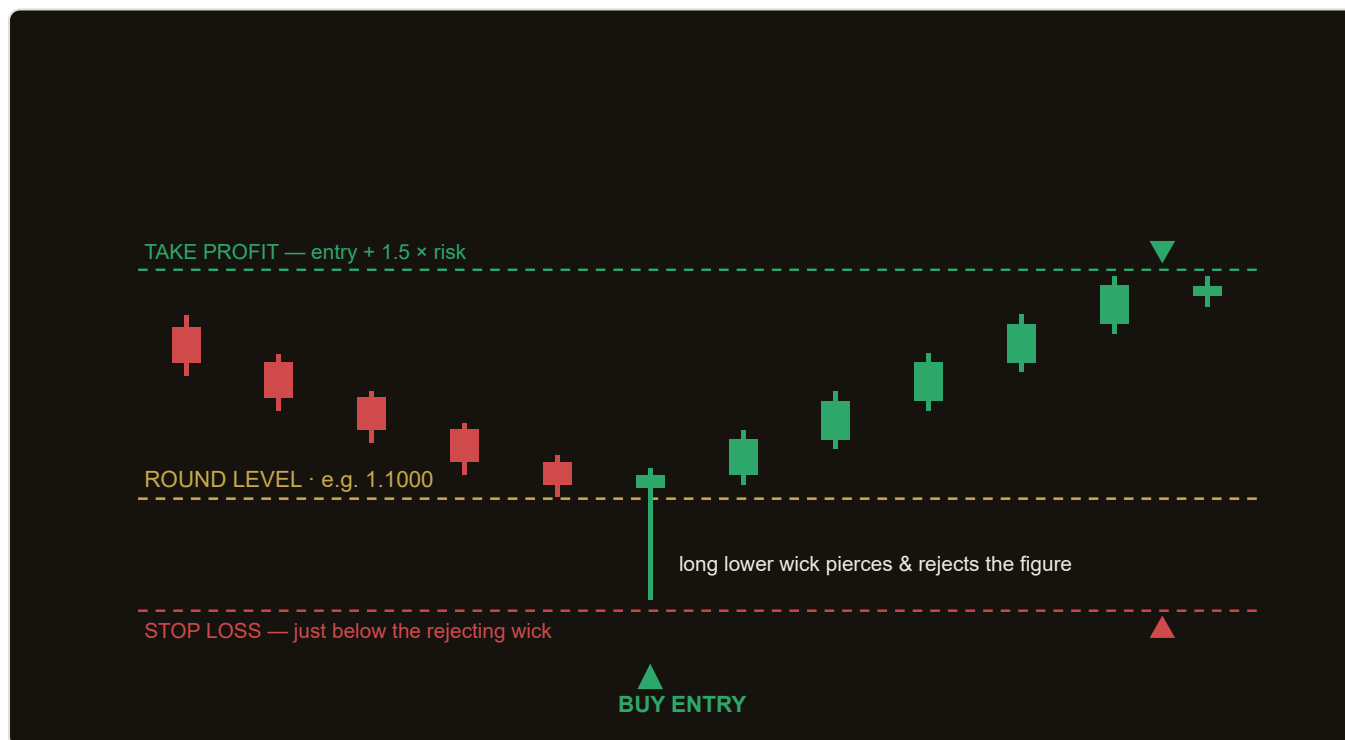
### Worked example — long off 1.1000 on EURUSD

Price drifts down to the 1.1000 figure. The next M15 candle prints a low of 1.0994 (a 6-pip dip below the level) but rallies to close at 1.1003, leaving a long lower wick that is 60% of the candle's range. With `TouchPips = 10` the close is within tolerance and `WickFrac = 0.50` is satisfied, so a long is opened at the Ask. With

`StopBufferPips = 5` the stop sits at 1.0989 (5 pips below the 1.0994 low). If entry risk is 16 pips, the take-profit with `RewardRatio = 1.50` is placed 24 pips above entry. The figure acted as support; the rejection is bought.

## 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

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Parameter	Default	Description
LevelStepPips	50	Spacing of the round-number grid, in pips. The default of 50 lands the grid on every ".00" and ".50" figure. Range 10–200, step 5.
TouchPips	10	After the wick rejects the level, the close must sit within this many pips of the level, keeping entries tight to the figure rather than far past it. Range 1–50, step 1.
WickFrac	0.50	Minimum rejection-wick length as a fraction of the candle's full high-to-low range. Higher values demand a more dominant rejection. Range 0.20–0.80, step 0.05.
StopBufferPips	5	Stop-loss buffer placed beyond the signal candle's rejecting wick, in pips. Range 1–50, step 1.
RewardRatio	1.50	Take-profit distance as a multiple of the structural stop distance. 1.50 targets 1.5 units of reward per unit of risk. Range 0.50–5.00, step 0.25.
MaxSpreadPoints	50	Skip new entries while the spread (in points) is wider than this. Set to 0 to disable the filter. Range 0–500, step 5.
Lots	0.10	Order volume in lots, automatically snapped to the symbol's volume step and clamped to its min/max limits. Range 0.01–1.00, step 0.05.
Magic	7720	Unique identifier tagging this EA's trades so it manages only its own positions (one position per magic). Range 0–9,999,999, step 1.

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## Recommended Settings

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The strategy is designed for intraday "figure-level" trading and is best suited to lower timeframes where round numbers are touched frequently.

- **Timeframes:** M5, M15, or M30. M15 is a sensible default starting point.
- **Symbols:** liquid instruments with clean round-number behaviour, such as major FX pairs (EURUSD, GBPUSD, USDJPY) and Gold (XAUUSD). The pip logic adapts automatically to any FX pair, metal, index, or crypto.
- **Grid spacing:** keep `LevelStepPips = 50` for ".00"/".50" figures; raise it to focus only on the larger, more significant whole figures.
- **Reward-to-risk:** the default `RewardRatio = 1.50` balances win rate against payoff. Lowering it raises the hit rate but shrinks each winner; raising it does the reverse.

- **Spread filter:** on instruments with variable spreads (Gold, indices), tune `MaxSpreadPoints` so entries are skipped during illiquid sessions.

**Tip:** Always optimise and forward-test parameters on a demo account for your specific broker and symbol before risking real capital. Round-level behaviour, typical spreads, and the broker's minimum stop distance all vary, and they directly affect which setups are tradable.

## How to Install on MetaTrader 5

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- 1 Copy `RoundLevelRejectionReversal.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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