

Altricore FXGrid LongOnly

Expert Advisor Instruction Manual • Version 0.3

1. Introduction & Strategy Overview

The **Altricore FXGrid LongOnly v0.3** is an automated Expert Advisor (EA) developed for the MetaTrader 5 (MT5) platform. It implements a long-only averaging-down (grid) strategy designed to capitalize on market pullbacks, filtering initial entries via the Relative Strength Index (RSI).

This EA is developed as part of the MT5 Algo trading tutorials on the **MT5 Algo Lab** YouTube channel. Newer versions of the strategy will become available as the tutorial series continues, so make sure to keep checking the channel and the **altricore.com** downloads section to ensure you have the latest version.

Core Strategy Logic:

- **Initial Entry:** When no open positions exist for the symbol/magic number and the RSI drops below the oversold threshold, a base buy order is initiated.
- **Dynamic Lot Sizing:** Order volumes scale automatically based on the total account balance to maintain consistent position sizing as the balance changes.
- **Grid Averaging:** If the market continues to decline while a basket is open, additional buy orders are placed each time the price drops by the configured grid step distance below the lowest open buy price.
- **Basket Take Profit:** The EA continuously computes the volume-weighted average entry price of all open positions. As soon as the Bid price reaches the target distance (in points) above this average cost, all positions in the basket are closed simultaneously in profit.

2. Input Parameters Guide

All inputs are organized into logical configuration groups within the EA properties dialog.

General Settings

Parameter	Default	Description
InpMagicNumber	20260806	Unique identifier for the EA to manage only its own positions. Essential when running multiple EAs on the same account.
InpSlippagePoints	30	Maximum permissible slippage in points during trade execution.
InpTimeframe	PERIOD_M15	Chart timeframe used for calculating the RSI indicator for initial entries.

Dynamic Lot Sizing

Formula: Lot Size = floor(Account Balance / InpBalancePerUnit) × InpLotsPerBalance
(minimum 1 unit enforced, volume rounded to broker step).

Parameter	Default	Description
InpLotsPerBalance	0.01	Base lot volume assigned per balance unit.
InpBalancePerUnit	500.0	Account balance required per lot unit step (e.g., \$500 balance → 0.01 lots; \$1,000 balance → 0.02 lots).

Entry Settings

Parameter	Default	Description
InpRSIPeriod	14	Lookback period for the RSI indicator.
InpRSIOversold	30.0	RSI threshold below which the EA opens the first buy order of a new basket.

Grid & Exit Settings

Parameter	Default	Description
InpGridStepPoints	200	Decline distance in points below the lowest open position required before placing the next grid buy.
InpMaxGridOrders	20	Maximum allowed buy orders in a single basket (set to 0 for unlimited).
InpBasketTPPoints	500	Take profit distance in points above the volume-weighted average open price to close the entire basket.

3. Installation & Chart Setup

1. **Install the EA:** In MetaTrader 5, open *File > Open Data Folder*, navigate to MQL5/Experts, and paste Altricore_FXGrid_LongOnly_v03.mq5 (or compiled .ex5).
2. **Compile / Refresh:** In MT5, open the *Navigator* panel (Ctrl+N), right-click on *Expert Advisors*, and select *Refresh*. If using the .mq5 source file, compile it in MetaEditor (F7).
3. **Attach to Chart:** Open the chart of your chosen trading instrument (e.g., EURUSD) and drag the EA from the Navigator panel onto the chart.
4. **Configure Settings:** In the properties dialog, go to the *Inputs* tab to customize your parameters. In the *Common* tab, check "**Allow Algo Trading**".
5. **Activate Automated Trading:** Ensure the **Algo Trading** button on the MT5 main toolbar is active (green). A blue graduation cap icon on the top-right of your chart confirms active operation.

4. How to Backtest the Strategy

1. Open the Strategy Tester in MT5 by pressing **Ctrl+R** or selecting *View > Strategy Tester*.
2. Select **Single / Overview** testing mode.
3. Set **Expert** to Altricore_FXGrid_LongOnly_v03, select your target symbol, and choose your desired testing period.
4. Set the modeling method to "**Every tick based on real ticks**" for the most precise fill simulation and drawdown measurement.
5. In the **Inputs** tab of the Strategy Tester, verify or optimize parameters such as Grid Step, Basket TP, and Lot Sizing.
6. Click **Start**. When complete, inspect the **Graph** and **Backtest** tabs to evaluate metrics including Maximum Equity Drawdown, Profit Factor, and Recovery Factor.

5. Risk Disclaimer: Grid Trading Systems

Grid and averaging strategies entail substantial financial risk. By design, this EA increases long exposure into a falling market. Please carefully evaluate the following risks:

- **Trend Risk & Drawdown:** In prolonged, one-directional downtrends without significant retracements, open baskets accumulate large drawdowns that can rapidly deplete account equity.
- **Margin Requirements:** Multiple compounding positions consume free margin quickly. Conservative `InpBalancePerUnit` settings are critical to prevent margin calls or stop-outs.
- **No Hard Stop Loss:** This EA relies strictly on basket take-profit exits and does not feature a fixed stop-loss per order. Risk management rests entirely on grid order limits and proper account capitalization.

Never trade with funds you cannot afford to lose. Always perform thorough historical and demo testing prior to live deployment.