

# GRID BALANCE EA

## Guide

May 2025

*Grid Balance EA is a powerful trading tool designed to implement a grid strategy with flexible customization to suit individual trading styles. Developed in MQL5, the EA automatically places buy and sell orders, assigns take-profit levels for each trade, and closes all positions once the total profit target is reached—streamlining the entire automated trading process.*

### **Trading Risk Warning - Disclaimer**

**i** Trading in financial markets involves significant risks and may not be suitable for all investors. It is important to understand that you can lose some or all of your invested capital. Ensure you fully understand the risks involved and carefully consider your investment objectives and risk tolerance before trading. The developer is not responsible for any losses incurred while using this EA.

# Settings Overview and Parameter Explanation

Variable	Value
ab Order comment	Grid Balance
01 Magic number	171819
01 Max spread (points, 0 = not used)	0
Slippage mode	Auto
01 Slippage (points)	0

**Order comment:** is a custom text tag the EA attaches to each order, allowing you to label the strategy, signal details, or parameters for easy filtering, review, and analysis; provide clear, distinct comments for each EA or strategy to avoid confusion and optimize tracking.

**Magic Number:** A Magic Number is an ID an EA assigns to each order so it can identify its own trades, manage and track them separately, and avoid confusion with manual orders or those handled by other EAs; when the same account runs multiple charts or EAs, simply assign a different Magic Number to each EA/instance to prevent conflicts and ensure accurate order management whether you are a novice or a professional trader.

**Max spread (points, 0 = not used):** The spread is the gap between the Bid price (what you can sell for) and the Ask price (what you can buy for); it is the hidden fee you pay every time you trade. A narrow spread lowers your cost, while a wide spread raises it.

With the Max Spread setting (in points, where 1 point = 0.1 pip on most forex pairs), the EA refuses to open a trade whenever the live spread on its dashboard exceeds your limit—protecting you from entries during illiquid or high-volatility periods. Set the value to 0 to disable the filter. Since spreads differ by broker, account type, symbol, and session, choose a limit a bit above your average observed spread (e.g., average + 20 %) after monitoring the market for a few days.

**Slippage:** The difference between the expected price of a trade and the actual price at which the trade is executed. Slippage often occurs during times of high market volatility or low liquidity when there is a sudden change in price. Positive slippage results in a more favorable price than expected, while negative slippage results in a less favorable price. The EA allows you to set an acceptable slippage value to limit the deviation between the expected and actual execution price, helping to control trading risks.

Slippage mode	Auto
01 Slippage (points)	Don't use
	Manual
	Auto

### **Slippage mode:**

- Don't use: No slippage allowed, orders are executed only at the requested price or rejected.
- Manual: User-defined slippage, EA executes orders within this range, balancing accuracy and execution probability.
- Auto: EA adjusts slippage automatically based on market conditions to enhance execution during high volatility while minimizing costs. 👉 **Recommended: If you're unsure what value to use, select Auto for balanced protection and flexibility.**

**Slippage (points):** Set a specific slippage value (in points) for Manual mode to define the maximum price deviation allowed for order execution.

### Configure the time period during which new trades are allowed

=> OPEN TRADE TIME & DAY _ _ _ _ _	
Choose mode	Don't use
ab Start time (HH:MM)	01:00
ab End time (HH:MM)	10:00
ab Trading days Mon-Sun (1=on, 0=off)	1111100

👉 **Note:** Start Time and End Time must always be entered in the correct HH:MM format. The time specified here refers to the server time.

#### Examples:

- Correct: 01:18
- Incorrect: 1:18 or 01:1

**Trading days Mon-Sun (1=on, 0=off):** Specify trading days for the EA from Monday to Sunday.

- Enter "1" for days when trading is allowed.
- Enter "0" for days when trading is not allowed.

**For example:** 1110001 means trading is allowed on Monday, Tuesday, Wednesday, and Sunday, but not on Thursday, Friday, and Saturday.

Don't use

Don't use

Only averaging

No new orders

Full trading




**Don't use:** Disable time management, this option turns off all time-based restrictions. Trades can be opened at any time, regardless of the set schedule.

**Only averaging:** the bot will only place averaging (DCA) orders for existing open positions. No new base orders will be opened.

**No new orders:** the bot will not open any new orders, including base and averaging (DCA) orders. Existing positions will remain unaffected.

**Full Trading:** the bot will continuously open new base and averaging (DCA) orders as needed until the take-profit target is reached. Once all positions are closed after hitting the target, no new trades will be opened.

Configure the time period during which trading is paused to avoid potential volatility caused by scheduled news events affecting the traded symbol.

=> NEWS FILTER _ _ _ _ _	
 News filter mode	Don't use
 News impact level	Important news
 Choose the trading-pause times before and after news	15 Minutes

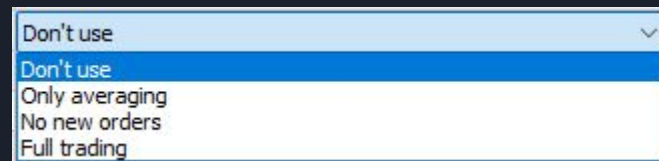
**News filter mode:** Select how the bot reacts to news events.

**News impact level:** Choose which types of news events will trigger the filter.

- Light news
- Medium news
- Important news

👉 News data is synced with the MT5 Calendar. You can check the schedule in the Calendar tab of MT5.

**Trading Pause Duration:** Define how long the bot will pause trading before and after a news event. Example: 15 Minutes pause before and after important news.

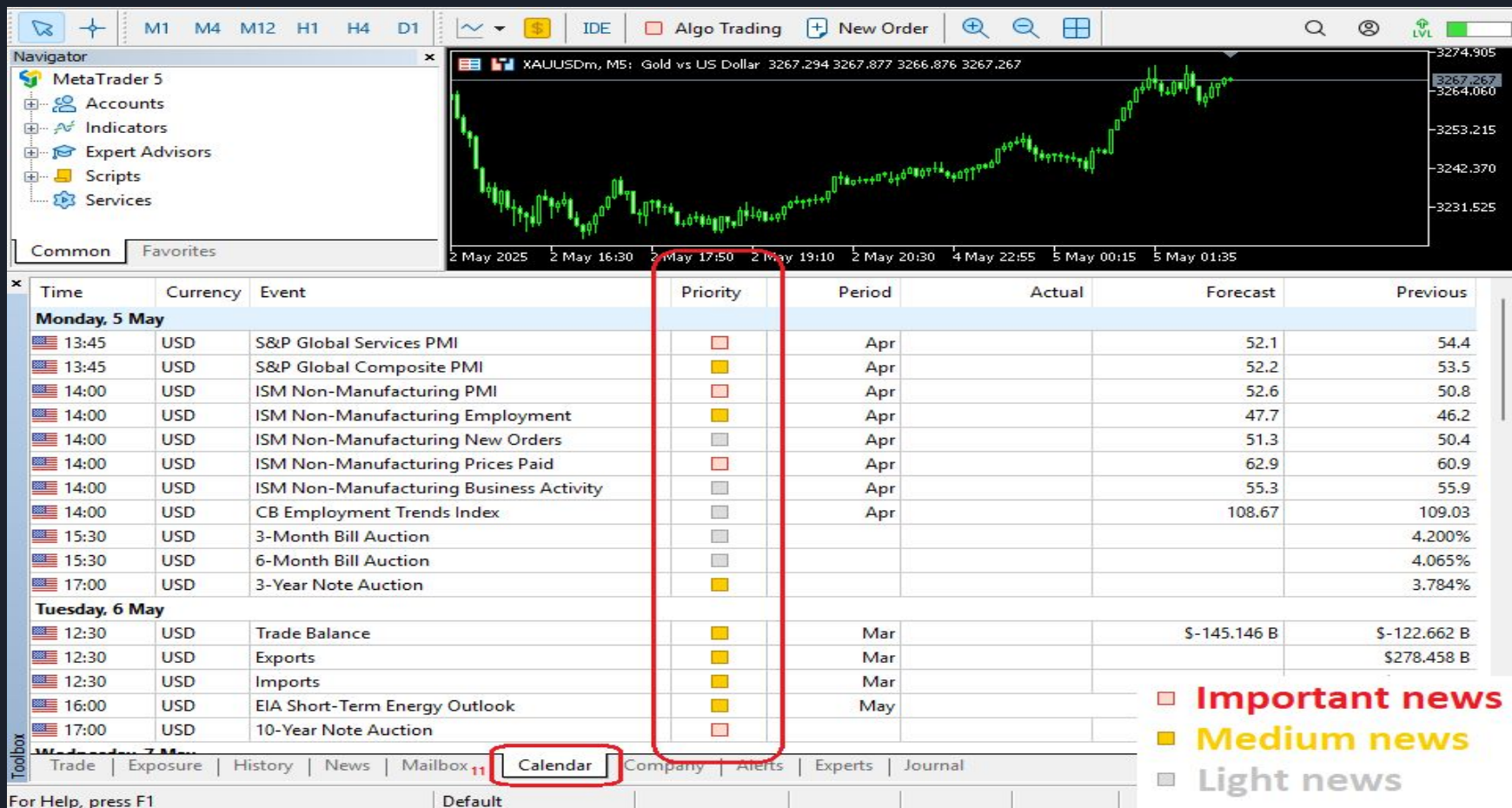


**Don't use:** Disable news-based filtering. Trades can be executed at any time, even during major news events.

**Only averaging:** During news periods, only averaging (DCA) orders will be placed for existing positions. No new base orders will be opened.

**No new orders:** All new orders are blocked during news-sensitive periods. The bot will not place any base or DCA orders. Open positions remain unaffected.

**Full Trading:** The bot will continue trading normally, opening both base and averaging (DCA) orders as usual, even during news events. Once take-profit is reached and positions are closed, no further trades will be opened unless re-enabled.



=> CAPITAL MANAGEMENT _ _ _ _ _	
01 \$ Cycle profit target (currency, 0 = not used)	100
👉 \$ Cycle profit target: only closes orders in hedge mode	false
01 \$ Profit target to stop trading (currency, 0 = not used)	500
01 \$ Cut-loss limit (currency, 0 = not used)	1000
👉 Auto-restart trading after cut-loss?	false

### *\$ Cycle profit target (currency, 0 = not used)*

#### *Description:*

Defines the profit threshold (in account currency) at which all open positions will be closed to secure profits, then new trades are immediately allowed to start a new cycle.

This setting supports continuous, loop-based profit-taking.

#### *How it works:*

- If set to a value > 0, the bot will monitor equity growth from the most recent cycle starting point (called Start Balance).
- When the equity increases by the amount specified, all open trades are closed.
- The Start Balance is then updated to the new equity value, and the bot begins a new cycle.

#### *Example:*

- Start Balance = 3000
- Cycle Profit Target = 100
  - ➔ When Equity reaches 3100, all current trades are closed.
  - ➔ A new cycle begins with Start Balance = 3100, and the process repeats.

#### *👉 Note:*

- This setting allows the bot to lock in profits while continuously trading in cycles.
- To disable, set the value to 0.

=> CAPITAL MANAGEMENT -----	
01 \$ Cycle profit target (currency, 0 = not used)	100
🔼 \$ Cycle profit target: only closes orders in hedge mode	false
01 \$ Profit target to stop trading (currency, 0 = not used)	500
01 \$ Cut-loss limit (currency, 0 = not used)	1000
🔼 Auto-restart trading after cut-loss?	false

### *\$ Cycle profit target: only closes orders in hedge mode*

#### *Description:*

Defines whether the bot should only close positions to secure profits when in a hedged state, based on the Cycle Profit Target.

#### *If set to false:*

- All positions will be closed as soon as the Cycle Profit Target is reached, regardless of hedge status.

#### *If set to true:*

- The bot checks whether the account is currently in hedge mode (triggered when drawdown exceeds the threshold defined by **\$ Start hedge at drawdown**).
- If hedged: all positions are closed and the profit is secured.
- If not in hedge mode: the accumulated cycle profit (Cum.profit) is reset to zero, and trading continues as normal without closing positions.

#### *Use case:*

👉 This option is useful for strategies that aim to lock in profits only when recovering from deep drawdowns via hedging.



=> CAPITAL MANAGEMENT _ _ _ _ _	
01 \$ Cycle profit target (currency, 0 = not used)	100
👉 \$ Cycle profit target: only closes orders in hedge mode	false
01 \$ Profit target to stop trading (currency, 0 = not used)	500
01 \$ Cut-loss limit (currency, 0 = not used)	1000
👉 Auto-restart trading after cut-loss?	false

### *\$ Profit target to stop trading (currency, 0 = not used)*

Closes all open positions and stops trading once the total profit reaches the set amount.

Set to 0 to disable.

*Example:* Set to 500 → Bot closes all trades and stops when profit hits 500.

### *\$ Cut-loss limit (currency, 0 = not used)*

Closes all open positions and stops trading when total losses reach the specified amount.

Set to 0 to disable.

*Example:* Set to 1000 → Bot stops and closes all trades when the loss reaches 1000.

### *Auto-restart trading after cut-loss?*

- If set to true, the bot will automatically restart trading after a cut-loss stop.
- If false, the bot remains inactive until restarted manually.

=> HEDGE MANAGEMENT _ _ _ _ _	
01 \$ Start hedge at drawdown (currency, 0 = not used)	200
01 % Hedge volume percentage	35
ab Hedge order comment	Grid Balance Hedge

### *\$ Start hedge at drawdown (currency, 0 = not used)*

Activates the hedge mechanism when unrealized loss (floating loss) reaches the specified amount.  
Set to 0 to disable.

*Example:* Set to 200 → When current loss hits –200, hedge orders are triggered.

### *% Hedge volume percentage*



Specifies the hedge order size as a percentage of the total volume of current positions in one direction (Buy or Sell).  
The specified percentage will be maintained continuously for both directions, meaning volume will grow over time, increasing risk.

👉 **Run tests to quickly understand the impact.**

*Example:* Set to 35 → If the total Buy position volume is 1.00 lot, the hedge order (Sell) will be 0.35 lot.

### *Hedge order comment*

A custom note or label added to hedge orders for easy identification in the terminal.  
This does not affect execution, only for visual tracking.

=> GRID MANAGEMENT - LOTS & DISTANCE _ _ _ _ _	
 Allow SELL orders	Allow sell
 Allow BUY orders	Allow buy

Allow sell

Allow sell

Forbid sell


Allow averaging

### *Allow BUY/SELL orders*

Controls whether the bot is allowed to open **BUY** or **SELL** orders. Each direction can be configured independently with one of three modes:

- **Allow:** The bot can freely open new orders in the selected direction (including base and averaging orders).
- **Forbid:** The bot is not allowed to open any new orders in the selected direction. Existing positions will not be affected.
- **Allow averaging:** The bot can only place averaging (DCA) orders for existing positions in the selected direction.

No new base orders will be opened.

 **Tip:** This setting is useful for controlling the direction of trading, limiting exposure, or running the bot in one-way mode.

½ First lot size	0.01
½ Lot multiplier	1.0
½ Max lot per order (0 = not used)	3.0

### Lot multiplier

Determines how the lot size increases with each new order in the sequence.

The calculation is based on the position with the lowest open price (for SELL) or the highest open price (for BUY).

This reference point may change if the order with volume equal to the First Lot is closed and replaced by a new position with a larger volume.

👉 Run tests to quickly understand the actual behavior.

*Example:*

- First lot = 0.01
  - Lot multiplier = 1.0
- Sequence: 0.01, 0.02, 0.03, 0.04...

### Max lot per order (0 = not used)

Sets the maximum allowed lot size for each individual trade.

Once this limit is reached, subsequent orders will no longer increase in volume.

*Example:*

- First lot = 0.01
  - Multiplier = 1.0
  - Max lot = 0.03
- Sequence: 0.01, 0.02, 0.03, 0.03, 0.03...

👉 Tip: Set to 0 to allow lot size to grow up to the symbol's maximum limit.

### First lot size

Defines the initial trade volume when opening the first order in a grid strategy.

*Example:* Set to 0.01 → The first trade will open with 0.01 lot.

01 Grid distance (points)	2000
1/2 Distance multiplier	1.2

### *Grid distance (points)*

Specifies the minimum fixed distance (in points) between consecutive grid orders.

This defines how far apart trades are placed from each other, helping manage trade spacing and risk.

#### *Example:*

Set to 2000 → Each new trade will be placed at least 2000 points away from the previous one.

### *Distance multiplier*



A scaling factor used to increase the spacing between each new trade in the grid sequence.

Each subsequent distance is calculated by multiplying the previous distance by this value.

#### *Example:*

If Grid distance = 2000 and multiplier = 1.2

→ Sequence: 2000, 2400, 2880, 3456...

 Automatic distance multiplier	true
 Timeframe for automatic distance multiplier	5 Minutes

### *Automatic distance multiplier*

When set to true, the bot automatically adjusts the spacing between grid orders based on recent market volatility. This helps reduce drawdown during strong price swings and adds flexibility to the strategy.

👉 **Note:** The automatic distance multiplier works in combination with the **Distance multiplier**. This means the actual spacing between orders is calculated using both market conditions and the user-defined multiplier.

👉 **Recommended:** Set to true for more adaptive and safer grid trading.

### *Timeframe for automatic distance multiplier*

Sets the reference timeframe for calculating volatility when using the auto distance multiplier. Shorter timeframes allow faster reaction to market changes.

👉 **Recommended:** Use M3 to M15 for optimal balance between responsiveness and stability.

 Use candle filter (red/green)	false
	2 Minutes
 Use timeframe-based DCA	false
	5 Minutes

### *Use candle filter (red/green)*

Activates a candle-based filter for averaging (DCA) orders, based on the color of the previous candle on the selected timeframe:

- If the previous candle is red → only Sell orders are allowed.
- If the previous candle is green → only Buy orders are allowed.



Orders are only executed when the candle color condition, the minimum order distance, and any other configured conditions (if any) are all satisfied.

### *Use timeframe-based DCA*

Enables time-based logic for averaging (DCA) orders. When activated, the bot will only execute DCA orders at fixed time intervals, instead of placing them immediately after meeting conditions such as order distance, candle filter, etc. (if applicable).

This feature helps spread out entry timing, reducing clustering of orders during fast or sideways market conditions.

 **Recommended:** Consider enabling this feature if it fits your trading strategy.

=> SNIPER MANAGEMENT _ _ _ _ _	
 Sniper mode	Don't use
 01 Sniper take-profit (points)	250

Don't use

Don't use

Always use

Use when hedge is active

*Sniper Mode* is a smart closing feature that allows the bot to close two positions at once: one with the highest profit and one that is farthest from the current price (whether it's in profit or loss).

This helps to tighten the grid, reduce risk, and remove inefficient trades, improving overall account performance.

### Choose Sniper Mode:

- Don't use: Disables the sniper function.
- Always use: Sniper runs continuously during trading.
- Use when hedge is active: Only activates when the hedge feature is triggered.

### Sniper take-profit (points)

Defines the take-profit level (in points) used when combining a winning trade and the farthest trade.

TP is calculated per minimum lot size of the symbol.


Once the combined result of both trades reaches the set TP, the bot closes them together.

This reduces drawdown, clears grid space, and improves balance efficiency.

### Impact on Grid Behavior

Closing a trade with First lot size changes the starting point of the grid.

The next first trade usually has a larger volume, which affects the Distance Multiplier calculation.

 **Tip:** Sniper TP is a powerful tool for managing risk and cleaning the grid. Use it if it fits your strategy; disable it if not needed.



=> TAKE PROFIT, TRAILING STOP & BREAK-EVEN _ _ _ _ _	
☰ Choose take-profit mode	Hidden
01 Create TP for each order (points, 0 = not used)	8000
01 Trailing stop (points, 0 = not used)	4000
01 Trailing step (points, 0 = not used)	250

Hidden

Visible

### *Choose take-profit mode*

- **Hidden:** The take-profit level is managed internally by the EA and not visible to the broker. Helps avoid TP hunting or price slippage during volatility.
- **Visible:** The take-profit level is set directly on the trading platform and visible to the broker. Suitable for clear, fixed exit targets.

### *Create TP for each order (points, 0 = not used)*

Sets a take-profit level (in points) for each order opened by the EA. Set to 0 to disable.

### *Trailing stop (points, 0 = not used)*

Enables a trailing stop. As price moves in your favor, the stop-loss adjusts to lock in profit and reduce risk. Set to 0 to disable.

### *Trailing step (points, 0 = not used)*

Minimum distance (in points) the price must move before the trailing stop is updated. Prevents excessive adjustments. Set to 0 to disable.

ab Break-even trigger time (format HH:MM; 00:00 = not used)	12:00
01 Break-even buffer (points)	50
↗ After break-even, stop trading.	false

### Break-Even Function

The bot includes a break-even feature that closes all open positions when the total net profit exceeds zero.

#### Calculation logic:

- **Cum. Profit:** Accumulated profit from previously closed trades (shown on the panel).
- **+ Current profit:** Unrealized profit from open positions.
- 👉 When **Cum. Profit + Current profit > 0**, the bot will automatically close all trades.

#### How to activate Break-Even:

- **Automatically:** based on a preset time.
- **Manually:** via command from the MT5 app or by pressing the dedicated button on the panel.

This feature helps to secure profits and minimize risk in case of market reversals.

#### Break-even trigger time (format HH:MM; 00:00 = not used)

Specific time (HH:MM) each day when the bot will trigger the Break-even function. Set to 00:00 to disable.

#### Break-even buffer (points)

A buffer (in points) that defines the minimum profit required above breakeven before the bot closes all positions. Prevents closing in a loss due to price noise.

#### After break-even, stop trading.

If enabled (true), the bot stops trading after break-even. If disabled (false), it continues trading as usual.

=> POSITION TIME DELAY _ _ _ _ _	
01 Delay after closing a position (ms)	3000
01 Delay after opening a position (ms)	9000

### Delay after closing a position (ms)

Waiting time (in milliseconds) after closing a trade before the bot can execute the next action. Helps avoid broker errors or overlapping execution.

### Delay after opening a position (ms)

Delay after opening a position before another can be opened. Controls trade frequency and prevents overload during high volatility.

=> CONTROL FROM THE MT5 APP _ _ _ _ _	
1/2 Enable EA (0 = not used)	1.0
1/2 Disable EA (0 = not used)	2.0
1/2 Reduce volume (0 = not used)	3.0
1/2 Activate break-even (0 = not used)	4.0
1/2 Close all, disable EA (0 = not used)	5.0

Enable EA (0 = not used): Enable the EA.


Disable EA (0 = not used): Disable the EA.

Reduce volume (0 = not used): Activate the Reduce Volume function.

Activate break-even (0 = not used): Trigger the Break-Even function.

Close all, disable EA (0 = not used): Close all open positions and disable the EA immediately.

You can control the EA directly from the MT5 app on your phone, tablet, or computer. Simply place **pending orders (Buy/Sell Limit or Buy/Sell Stop)** at desired price levels, and the EA will automatically detect and execute them based on your configuration.

 **Note:** If the same symbol is running on multiple chart tabs, make sure to assign a unique Number to each tab to avoid conflicts or order misfires.

## Reduce volume function

The bot includes a break-even feature that closes all open positions when the total net profit exceeds zero.

### Calculation logic:

- **Purpose:** Lowers exposure by simultaneously closing the Buy order with the highest open price and the Sell order with the lowest open price.
- **How to activate:** Click the button on the control panel or send a command from the MT5 app.
- **Tip:** Enable this feature only if it aligns with your trading plan.

### Suggested usage

- You have two or more Sell orders and two or more Buy orders.
- The current price is near the midpoint of those orders.

Under these conditions, Reduce Volume helps narrow the entry-price gap, trim overall position size, and lower risk.

=> CONTROL PANEL _ _ _ _ _	
↗ Show on-chart panel	true
↗ Enable click sound	true

**Show on-chart panel:** Show or hide the control panel on the chart.

**Enable click sound:** Play a sound when clicking buttons on the control panel.





After reduce volume

Symbol	Ticket	Time	Type	Volume	Price	S / L	T / P	Price	Profit
xauusdc	293380363	2024.12.05 06:44:26	buy	0.01	2648.319			2647.765	-0.50
xauusdc	293733186	2024.12.05 10:12:34	sell	0.01	2648.028			2647.925	0.10

☹ Balance: 3 155.25 USC Equity: 3 154.85 Free Margin: 3 154.85



Please use the **"Close All"** button on the **EA control panel** instead of the **"Close All"** option in the MT5 application. This ensures the EA properly **records the closure**, **resets its internal state**, and **continues operating according to its intended logic**. If you close trades externally, the EA may not detect it correctly and could behave unexpectedly.

Click drag  
the panel

**Cum. Profit (Cumulative Profit)**  
is the total profit or loss you have  
accumulated from closed trades  
over a specific period or trading  
cycle.

Enable/Disable EA

Break-Even | on/off

GRID BALANCE™  
04 hr 36 min 07 sec

Start Bal: 50214.86  
Equity: 50169.64  
Profit: -83.62  
Cum.Profit: 38.12  
Spread: 160

Enable

Reduce Vol

BE | off

Close All

-

0.01

+

Open Sell

Open Buy

Reduce volume function

Close all open positions and  
disable the EA immediately



## Grid Balance EA – Operating Tips

- *Best market conditions:* The EA performs best in a sideways market; monitoring the chart alongside the EA gives an extra edge.
- *Handling high volatility:* During major news releases or strong trends, consider closing all positions and pausing the EA.
- *Recommended timing:* Monday and Friday can be unpredictable. Tip: switch the EA on after 15:00 server time on Monday and turn it off before the market closes on Friday.
- *Managing volume:* If total exposure grows far beyond the initial First lot, use Reduce Volume to cut size, or activate Break-Even and close all trades once price stabilizes and the account is no longer in drawdown.
- 💡 *Final Thoughts:* The EA is just a tool 🛠️; in the end, we are the ones making decisions. Many people misunderstand and expect the EA to generate consistent profits automatically.
- 🚀 *Wishing you and me,* as traders who understand how challenging the market is, to achieve success, even if just a little.
- 📖 *Thank you for taking the time to read the document!* 🙏

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