

1. What EVA is

EVA is one expert advisor with three layers. Each layer works on its own, and switching off a layer never changes the ones below it.

Layer	What it does	Where it runs
Panel and tools	The panel, manual trading by risk, the account guard, the broker cost	Live
Engines	Six rule-based gold engines with a real stop-loss and take-profit	Live and Strategy Tester, identical
AI assistant	Notes on every trade, a daily briefing, the ASK EVA chat, Telegram	Live only, optional

The AI never opens, closes or changes a trade. The engines and you decide; the AI reads, explains and, when you ask it, proposes a settings change that is not applied until you confirm it.

EVA speaks 11 languages: English, Spanish, Portuguese, French, Italian, German, Russian, Turkish, Chinese, Japanese and Korean (section 5).

2. Installation and first start

1. Attach **EVA Gold Engine** to an **XAUUSD** chart. Any timeframe works: the engines read M1, M5 and M15 on their own. M5 is a comfortable view. EVA gives the chart a clean look: no grid, no volume bars, green up candles and red down candles.
2. Turn on **Algo Trading** in the MetaTrader toolbar.
3. The panel appears, in the language of your MetaTrader. Press **MENU**, open **QUICK START**, pick a profile, press **APPLY** and then **SAVE**.
4. Optional, for the AI and Telegram: in **Tools > Options > Expert Advisors** tick *Allow WebRequest for listed URL* and add the addresses you will use:

Service	Address to allow
Google Gemini	https://generativelanguage.googleapis.com
Groq	https://api.groq.com
OpenRouter	https://openrouter.ai
OpenAI	https://api.openai.com
Anthropic Claude	https://api.anthropic.com
DeepSeek	https://api.deepseek.com
Mistral	https://api.mistral.ai
xAI Grok	https://api.x.ai
Telegram	https://api.telegram.org

The broker GMT offset and daylight saving in London and New York are detected automatically. When the broker switches to or from daylight saving, EVA follows within a minute, without a restart. Gold symbols with other names (GOLD, XAUUSD.m, XAUUSDm and similar) are recognized.

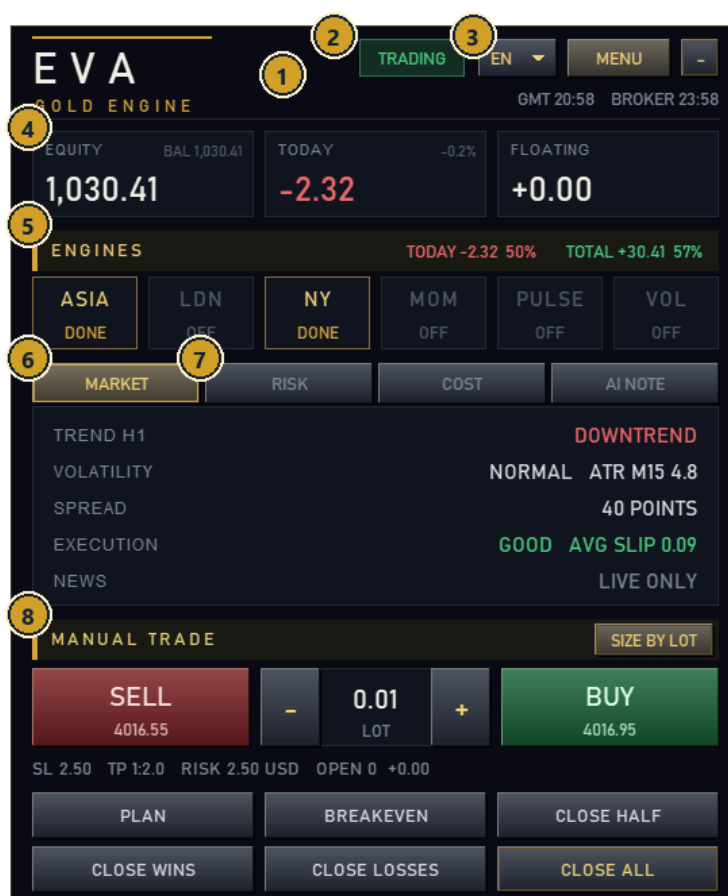
Three ways to change the settings

All of EVA's settings (162) can be changed in three ways, with the same result:

- **In MetaTrader's inputs window (F7):** the names are always in English, because MetaTrader only accepts Latin letters in the inputs of Market products.
- **From EVA's panel:** MENU > SETTINGS > **ALL SETTINGS**. The names are in EVA's language and the changes are kept with SAVE (or on their own, with AUTOSAVE).
- **By asking EVA**, in ASK EVA or on Telegram: for example "lower the risk to 0.5%". EVA shows you the change and it is not applied until you confirm it (section 11).

Section 16 lists every setting with its name in F7 and on the panel (in English they are the same).

3. The panel



1 The header

Top left, the EVA logo. On the right, the status pill, the language button, **MENU** and -, which folds the panel into a bar (another click opens it). Below, the GMT time and the broker time. The panel can be dragged by its header anywhere on the chart.

2 The status pill

It always says what EVA is doing and, if it is not trading, why.

Pill	Meaning
TRADING	Engines on, nothing is blocking them

Pill	Meaning
LOW VOLATILITY	Gold is too quiet for a breakout (see the volatility filter). The engines wait
NEWS: ...	Inside an NFP, CPI or FOMC window
LIMIT WARNING	A loss limit is 80% used
DAILY LOSS LIMIT, WEEKLY LOSS LIMIT, MAX DRAWDOWN	A loss limit holds: no new trades until it resets
PROP TARGET REACHED	Prop firm mode: the profit target is reached, trading stops
WEEKEND	Friday close: positions were flattened before the weekend
ENGINES PAUSED	You paused the engines (panel or Telegram). The pause survives a restart
NOT GOLD: ENGINES OFF	The chart is not gold. The panel and the manual tools work, the engines stay off
ENGINES OFF	The engines are switched off in the settings

3 The language button

Next to **MENU**, the button with the language code (EN, ES, PT...) opens the list of the 11 languages. One click changes all of EVA.

4 The account

Three boxes: **EQUITY** (with the balance next to it), **TODAY** (the day's result and its percentage) and **FLOATING** (the result of the open trades).

5 The engines

One chip for each of the six engines (ASIA, LDN, NY, MOM, PULSE, VOL) with its state: **WAITING** for its session, **ARMED** with pending orders, **IN TRADE**, **DONE** for today, or **OFF** if it is switched off. Next to the title, **TODAY** and **TOTAL** show the result of EVA's trades and the win rate, commissions included.

6 The four tabs

Tab	What it shows
MARKET	TREND H1 (UPTREND, DOWNTREND or SIDEWAYS, from the 50-bar exponential average of H1), VOLATILITY (LOW, NORMAL or HIGH with the M15 ATR in USD), SPREAD in points (red when above the maximum), EXECUTION (EXCELLENT, GOOD, NORMAL or POOR from the average slippage of the last fills; MEASURING until there are 5), NEWS (the next event or the pause in progress)
RISK	DAY LOSS , WEEK LOSS and DRAWDOWN with how much of each limit is used, PROP TARGET when prop firm mode is on, ENGINE SIZE (the engines' lot or risk) and CONFLICT GUARD
COST	What the broker charged this month: SPREAD , SLIPPAGE , COMMISSION , PER TRADE and the month's total (section 10)
AI NOTE	The last AI note with its time. When there is a limit warning, it comes first

The RISK tab turns amber when there is a warning or a limit holds.

7 Conflict Guard

On the RISK tab. It says **STOP MOVED BY ANOTHER PROGRAM** when another program changed the stop of an EVA trade today, **TRADE CLOSED OUTSIDE EVA** when an EVA trade was closed from outside (another EA, the

mobile app, a manual click), or how many trades of other programs are open on the same symbol. EVA also tells you on Telegram.

8 Manual trading

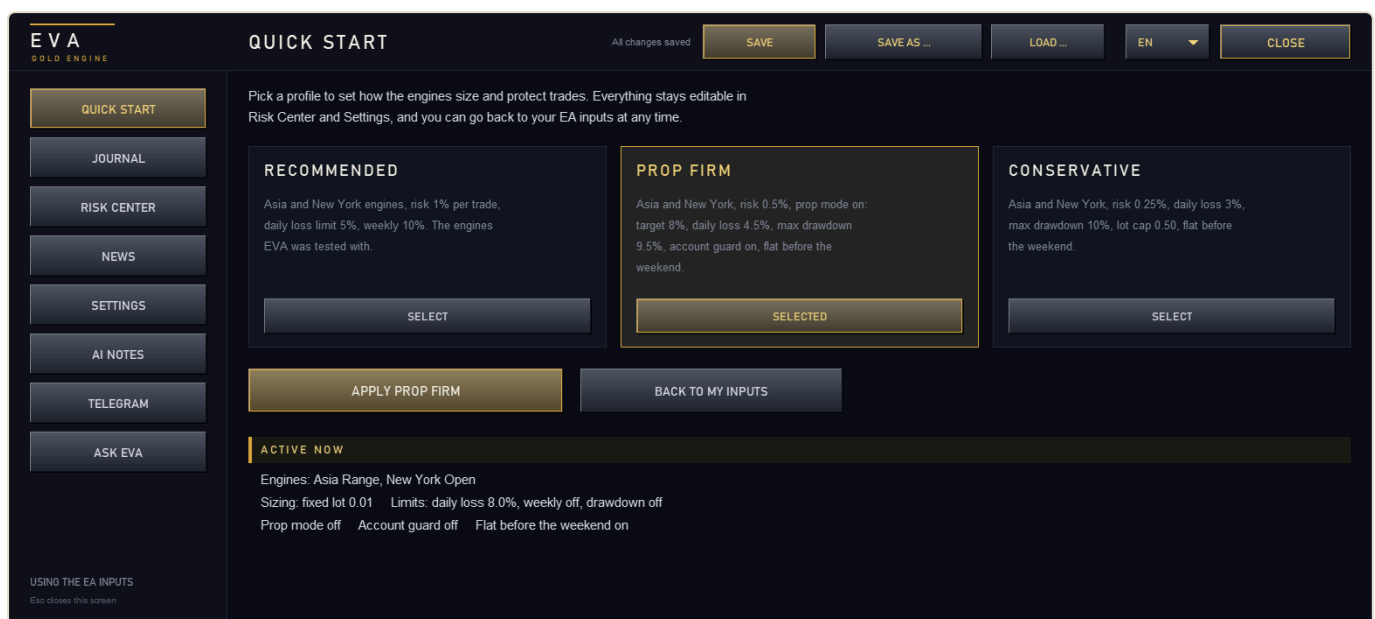
The **MANUAL TRADE** section has the buttons of section 6: SELL, BUY, the lot with - and +, the **SIZE BY LOT / SIZE BY RISK %** button, PLAN, BREAKEVEN and the close buttons. Below them are the stop, the target, the risk and how many manual trades are open.

4. The screens (MENU)

MENU opens a screen over the whole chart. **CLOSE** or **Esc** goes back to the chart. The left column switches screens. Every screen has the language button next to CLOSE.

QUICK START

Three profiles; **SELECT** marks one and **APPLY** uses it:

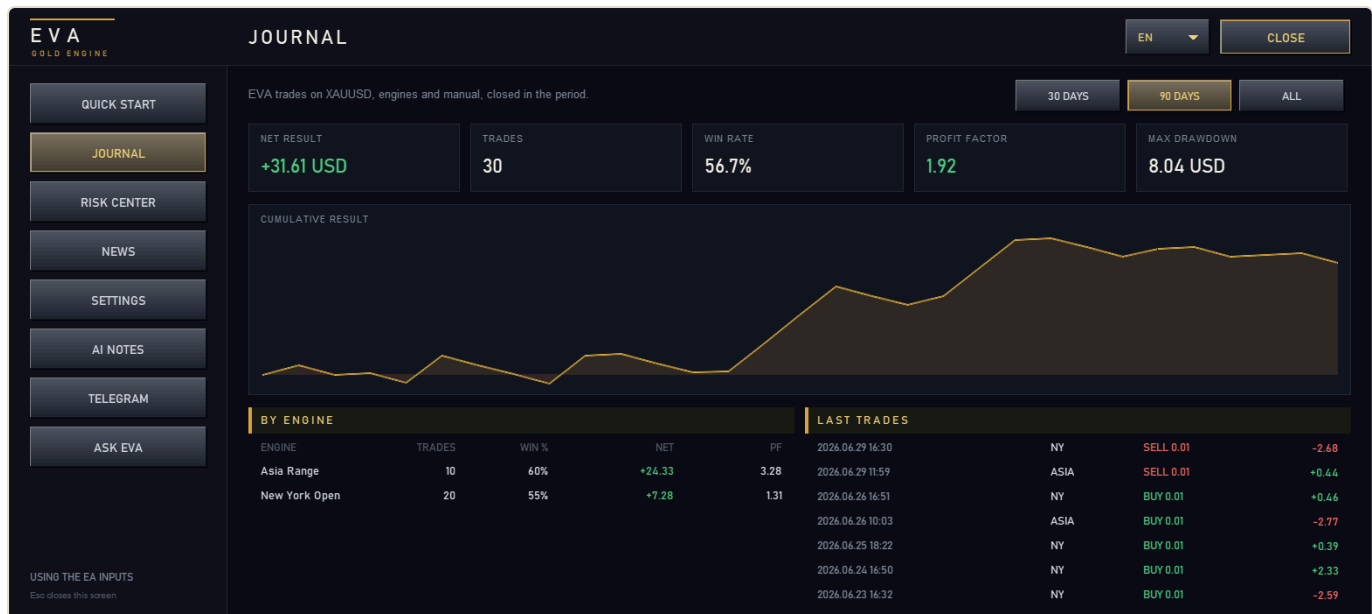


Profile	What it sets
RECOMMENDED	Asia and New York engines, 1% risk per trade, daily loss limit 5% and weekly 10%. The setup EVA was tested with
PROP FIRM	Asia and New York, 0.5% risk, prop firm mode on (target 8%, daily loss 4.5%, max drawdown 9.5%), account guard on, everything closed before the weekend
CONSERVATIVE	Asia and New York, 0.25% risk, daily loss 3%, max drawdown 10%, lot cap 0.50, everything closed before the weekend

BACK TO MY INPUTS drops the changes and goes back to the EA inputs. **ACTIVE NOW** sums up what is in use: engines, sizing, limits, prop mode, account guard and the weekend close. Engines you paused are listed with **PAUSED**.

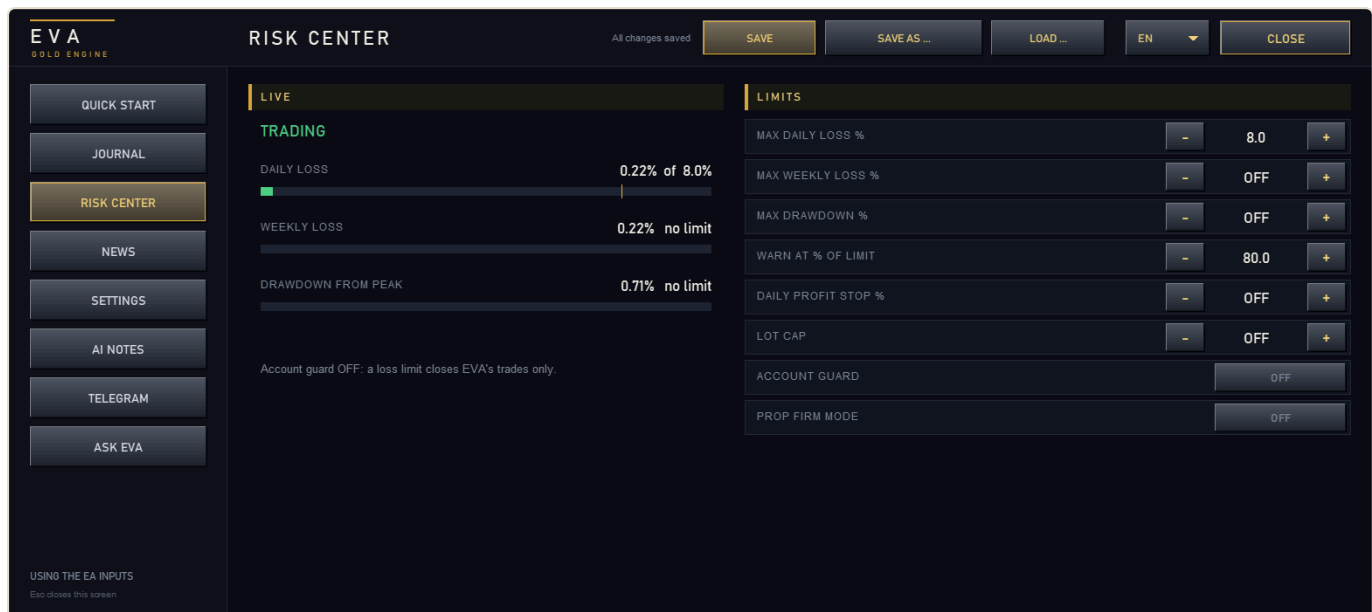
JOURNAL

EVA's trades on the account (engines and manual), closed in the period chosen with **30 DAYS**, **90 DAYS** or **ALL**: **NET RESULT**, **TRADES**, **WIN RATE**, **PROFIT FACTOR**, **MAX DRAWDOWN**, the **CUMULATIVE RESULT** curve, the result **BY ENGINE** and the **LAST TRADES** (time, engine, side, lot and result).



RISK CENTER

On the left (**LIVE**): the status and a bar per limit with how much is used (daily loss, weekly loss, prop drawdown, prop target) and the trading days. On the right (**LIMITS**), every limit with - and +: **MAX DAILY LOSS %**, **MAX WEEKLY LOSS %**, **MAX DRAWDOWN %**, **WARN AT % OF LIMIT**, **DAILY PROFIT STOP %**, **LOT CAP**, the **ACCOUNT GUARD** and **PROP FIRM MODE** switches, and with prop mode on **PROP PROFIT TARGET %**, **PROP DAILY LOSS %** and **PROP MAX DRAWDOWN %**.

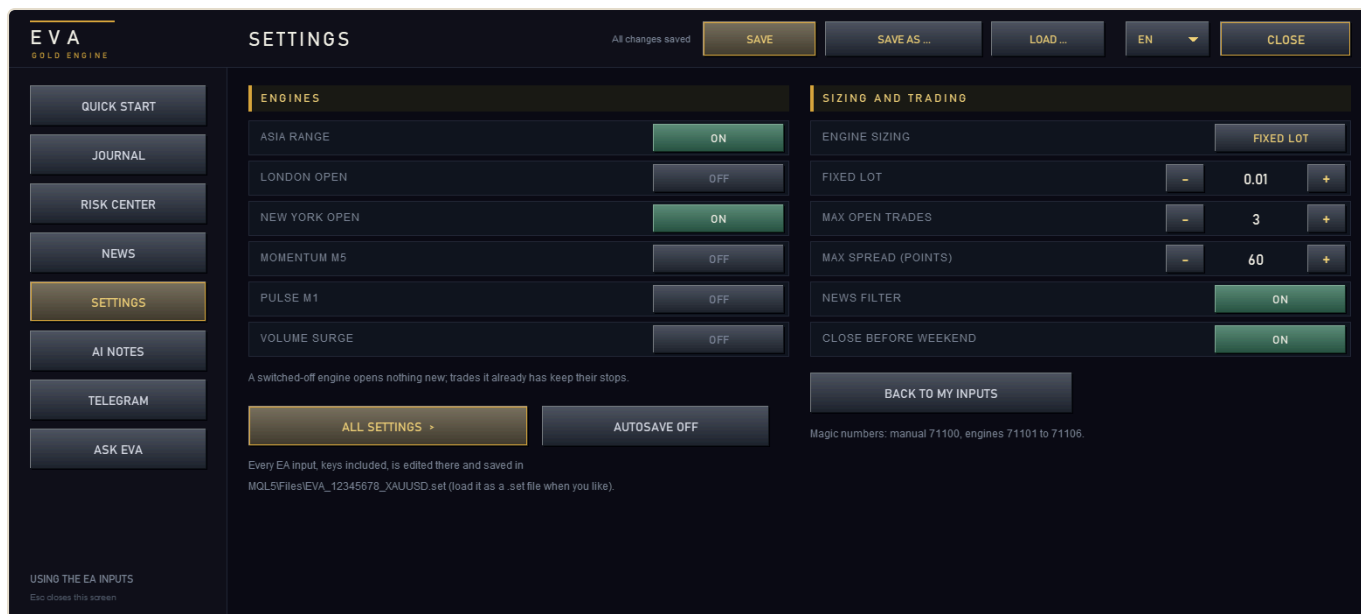


NEWS

The MetaTrader economic calendar, last 2 hours and next 7 days: date and time, time left, impact, currency and event. The events that pause the engines carry the **PAUSES ENGINES** tag. Two filters at the top: **USD ONLY** or **ALL CURRENCIES**, and **MEDIUM AND HIGH, ALL IMPACTS** or **HIGH IMPACT**. **UP / DOWN** or the mouse wheel scroll the list. It is MetaTrader's calendar: it has no cryptocurrency news and works live only.

SETTINGS

The quick view has two columns:



- **ENGINES:** each of the six engines with ON / OFF.
- **SIZING AND TRADING:** **ENGINE SIZING** (fixed lot or risk %), **FIXED LOT** or **RISK PER TRADE %**, **MAX OPEN TRADES**, **MAX SPREAD (POINTS)**, **NEWS FILTER** and **CLOSE BEFORE WEEKEND**.

BACK TO MY INPUTS drops the panel changes (it asks first, and **UNDO** brings them back). **ALL SETTINGS** opens the full list. **AUTOSAVE ON / OFF**, next to it, chooses how changes are kept (see SAVE, below).

ALL SETTINGS

Every EA input can be changed from the chart. On the left, the **GROUPS**, in the same order as in F7; on the right, the settings of the group (**PREV** / **NEXT** when they do not fit on one page).

- ON / OFF switches change with one click.
- Lists (AI provider, model, language, stop mode...) open with every option.
- Numbers and texts go in boxes: type or paste (**Ctrl+V** or **right-click > Paste**) and press **Enter**. Until you press Enter, the row says **PRESS ENTER**.
- API keys show as dots. The eye button shows them, the tag says **KEY SET** or **EMPTY**, and **CLEAR** (pressed twice, **SURE?**) removes the key.
- The Telegram bot and chat are set on the TELEGRAM screen only: here they show as a line with **GO TO TELEGRAM**.
- **NEXT START** marks the settings used when EVA restarts (panel size, volume engine timeframe, floating dashboard...). **EA INPUTS ONLY** marks the ones changed in F7 only (magic number and trade comment), so the open trades are never lost track of.
- A gold edge marks a value that differs from your EA inputs.

SAVE, SAVE AS and LOAD

A change works at once, but it is written to the settings file only with **SAVE**. SAVE asks before overwriting `MQL5\Files\EVA_<account>_<symbol>.set`, the file EVA reads every time it starts (**YES**, **SAVE** or **CANCEL**). **SAVE AS** writes a copy with the name you choose, and **LOAD** reads one back. Without SAVE, changes last until EVA restarts; closing the EVA screen with unsaved changes asks first (**CLOSE WITHOUT SAVING**). The buttons are on every screen that changes settings (QUICK START, RISK CENTER, NEWS, SETTINGS, TELEGRAM), and next to them you can read whether everything is saved.

AUTOSAVE: with **AUTOSAVE ON** (on SETTINGS and at the bottom of ALL SETTINGS), every change is written to the settings file within a second, as if you pressed SAVE, and the top bar reads *Every change is saved at once*. With

AUTOSAVE OFF (the default), only **SAVE** writes it. The choice is kept for that account and symbol.

If you later change an input with **F7**, that input is used at the next start and every other saved setting is kept. Every change is written to the Experts log.

AI NOTES

CONNECTION: provider, model, key status, backup, calls today, daily briefing hour, language, tokens today, cost this month and status. **TEST NOW** checks the connection. Below, the steps to connect a provider. On the right, the last **NOTES**.

The screenshot shows the 'AI NOTES' window of the EVA Gold Engine. On the left is a sidebar with buttons: QUICK START, JOURNAL, RISK CENTER, NEWS, SETTINGS, AI NOTES (highlighted), TELEGRAM, and ASK EVA. The main area is divided into two sections. The 'CONNECTION' section on the left lists settings: PROVIDER (Google Gemini), MODEL (gemini-flash-latest), API KEY (SET), BACKUP (Groq KEY SET), CALLS TODAY (0 of 30), DAILY BRIEFING (07:00 GMT), LANGUAGE (English), TOKENS TODAY (0 in / 0 out), COST THIS MONTH (-), and STATUS (idle). A 'TEST NOW' button is at the bottom of this section. Below the button are three numbered instructions for getting an API key. The 'NOTES' section on the right shows '0 today' and a message: 'No notes yet. They appear when an engine order fills or a trade closes, and once a day with the market briefing.' At the top right are 'EN' and 'CLOSE' buttons.

TELEGRAM

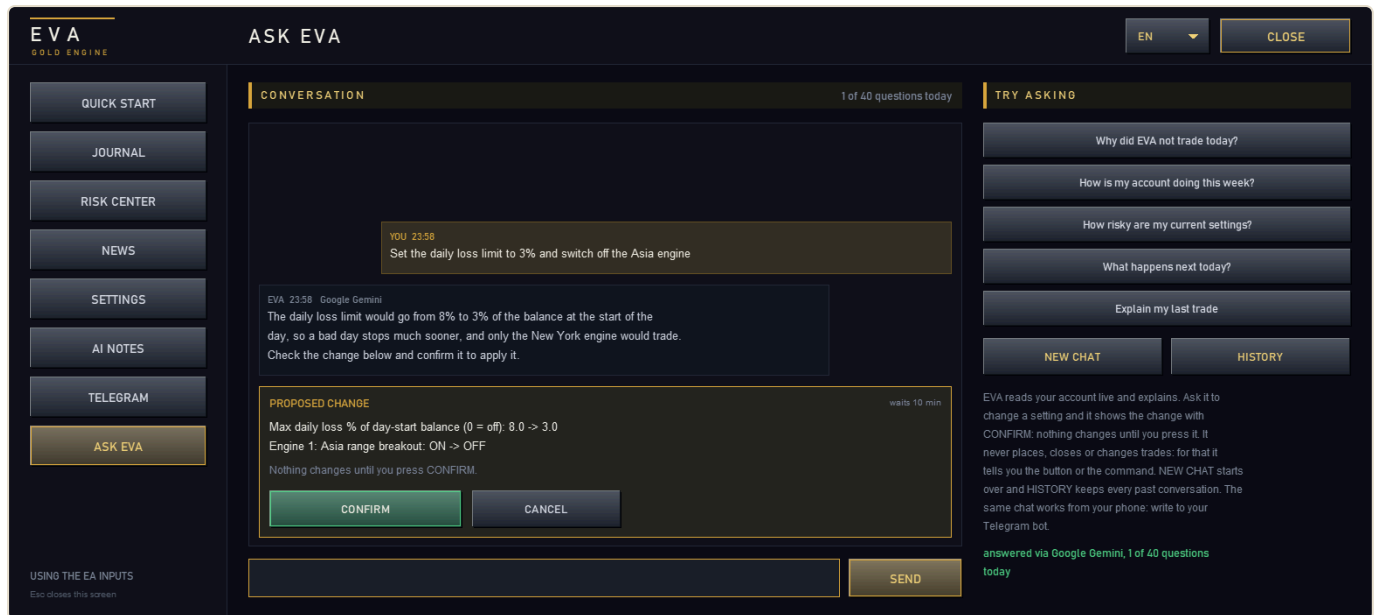
CONNECTION: the bot, the **BOT TOKEN** box (with **CONNECT**), the linked **CHAT** (with **CHANGE CHAT**), messages today, the last command and the engines' state. **SEND TEST** sends a message to your chat and **PAUSE ENGINES** / **RESUME ENGINES** works as on the panel. On the right, **WHAT IS SENT** (each one switches **ON** or **OFF** with a click), the commands and the **LAST MESSAGES** (section 12).

The screenshot shows the 'TELEGRAM' window of the EVA Gold Engine. The sidebar is identical to the previous window. The main area has three sections. The 'CONNECTION' section on the left includes fields for BOT (@YourEvaBot), BOT TOKEN (with a 'SET' button), CHAT (Trader (123456789) with a 'CHANGE CHAT' button), MESSAGES TODAY (0), LAST COMMAND (NONE), ENGINES (TRADING), and STATUS (connected). It has 'SEND TEST' and 'PAUSE ENGINES' buttons. Below are three numbered instructions. The 'WHAT IS SENT' section on the right is a table with columns for feature names, status toggles, and command lists. The 'LAST MESSAGES' section at the bottom shows 'Nothing sent yet. SEND TEST checks the connection.' At the top right are 'SAVE', 'SAVE AS ...', 'LOAD ...', 'EN', and 'CLOSE' buttons.

WHAT IS SENT	ON/OFF	COMMANDS
TRADE OPENS AND CLOSES	ON	/status
GUARD ALERTS	ON	/positions
AI NOTES	ON	/today
DAILY SUMMARY 21:00 GMT	ON	/note
COMMANDS FROM YOUR CHAT	ON	/pause
		/resume
		/new
		/confirm
		/cancel
		/undo
		/help

ASK EVA

The chat (section 11). **TRY ASKING** has ready questions for one click. **NEW CHAT** starts over and **HISTORY** opens past conversations. When EVA proposes a settings change, a card appears above the input box with **CONFIRM** and **CANCEL** (section 11).



5. Languages

EVA speaks English, Spanish, Portuguese, French, Italian, German, Russian, Turkish, Chinese, Japanese and Korean: the screens, the panel, Telegram and the AI answers.



- **Automatic** (the default) follows the language of your MetaTrader. If it is not one of the 11, EVA uses English.
- The language button next to MENU, on the panel and on every screen, changes it with one click. The same setting is **Language of EVA** in ALL SETTINGS > AI NOTES: PROVIDER. SAVE keeps it.
- The input names in F7 are always in English (section 2).
- The Experts log stays in English, so a message can be searched and shared the same way anywhere.

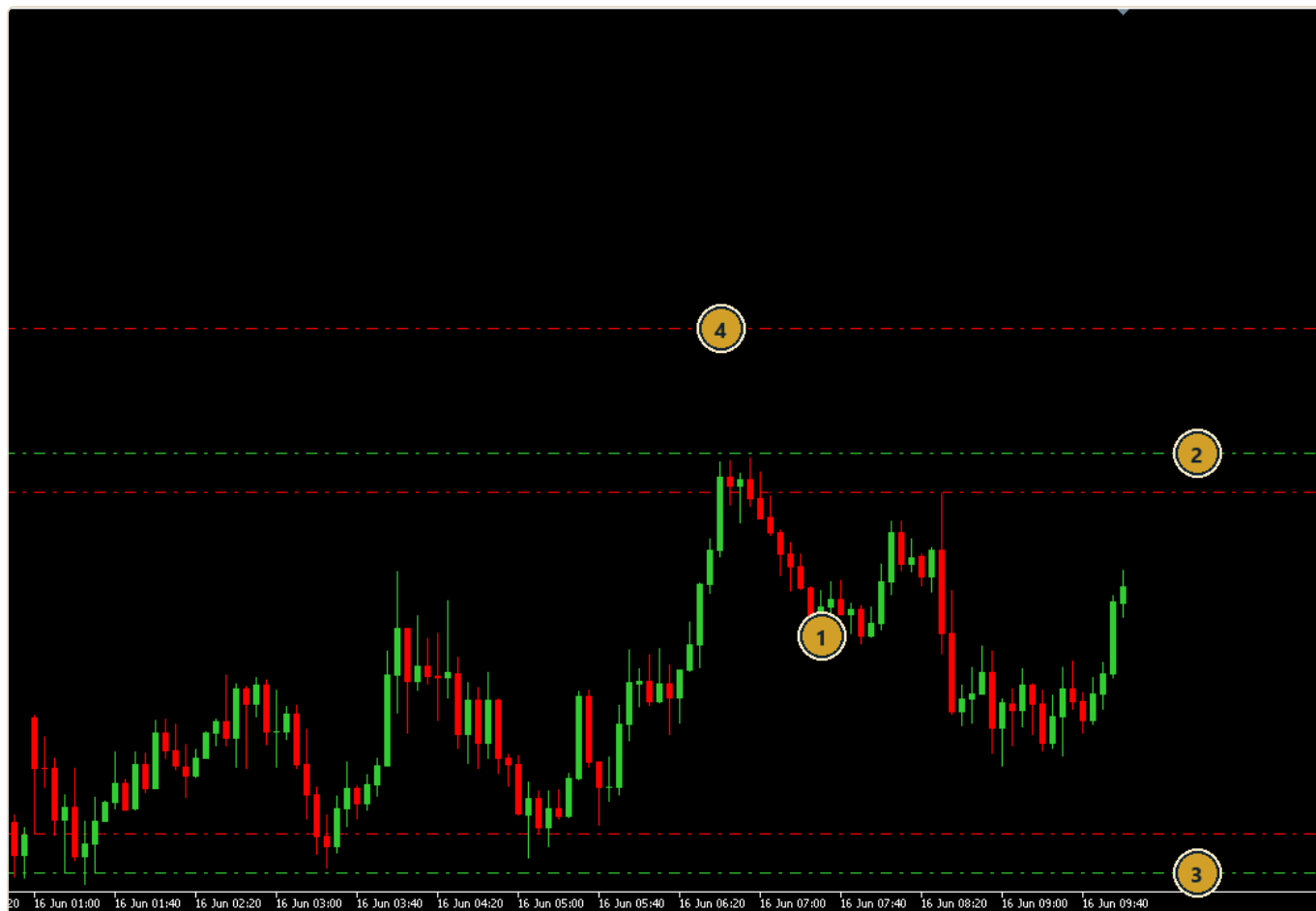
6. Manual trading

- **BUY** and **SELL** open at market. The size is a fixed lot or a percentage of the account at risk; the **SIZE BY LOT / SIZE BY RISK %** button switches between them, and - / + change the lot or the risk.
- The stop is placed at the engines' stop distance and the target at a multiple of the stop (2 by default; setting *Manual take-profit as a multiple of the stop*).
- **PLAN** draws three lines on the chart: entry, stop-loss and take-profit. Drag them: a stop below the entry is a buy, above is a sell. The panel shows the stop, the target and the money at risk, and BUY / SELL become **CANCEL** and a button named after the order (BUY, SELL LIMIT, BUY STOP...): press it to send. An entry away from the price becomes a pending order. While the lines do not make a valid trade, the button reads **ADJUST LINES**.
- **BREAKEVEN** moves the stop of your manual trades to entry plus 0.50 USD (setting *Breakeven button: profit kept*).
- **CLOSE HALF, CLOSE WINS, CLOSE LOSSES, CLOSE ALL** do what they say.
- Optional automatic breakeven and trailing stop for manual trades (group PANEL AND MANUAL TRADING).
- Manual trades use their own magic number: the engines never touch them. The engines' loss limits also block new manual trades.

7. The engines

The six engines

Engine	Default	Idea
Asia Range	On	Range of the Asian night (00:00-07:00 GMT), pending stops above and below
New York Open	On	Range of the hour before the 09:30 New York open, pending stops above and below
London Open	Off	Same idea on the London open
M5 Momentum	Off	Breakout of the last 12 M5 bars on an expansion bar
M1 Pulse	Off	Continuation after a strong M1 impulse bar
M30 Volume Surge	Off	Bar with tick volume at least twice its average



1. **The Asian range:** The high and the low from 00:00 to 07:00 GMT.
2. **A BUY STOP above the high:** If gold breaks up, EVA is in.
3. **A SELL STOP below the low:** If it breaks down instead. The first fill cancels the other.
4. **Stop and target from the start:** Every order carries a real stop-loss and take-profit.

Strategy Tester · XAUUSD M5 · 2026-06-16

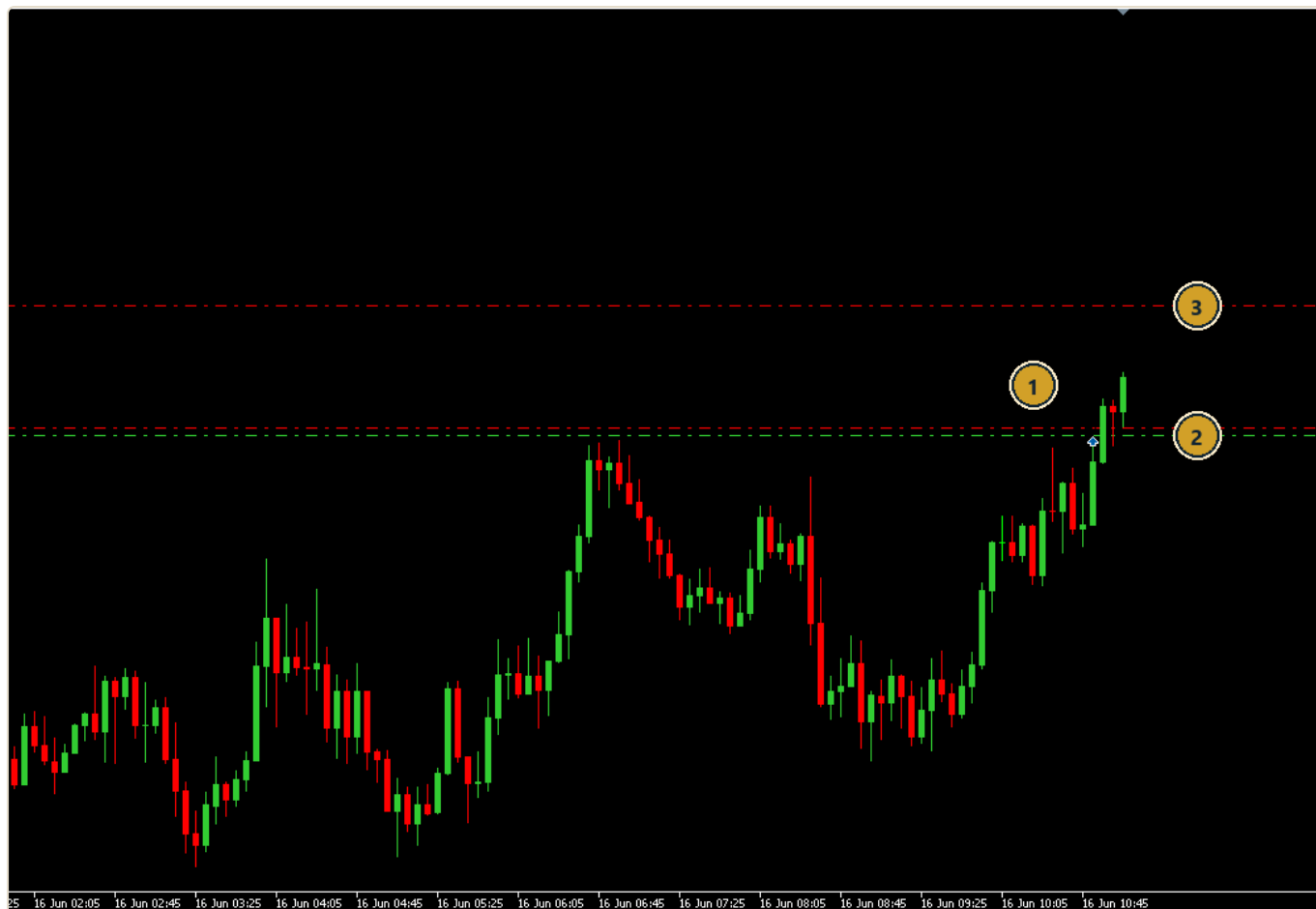
Asia and New York are on because in our own testing on gold the other four added nothing over them. They are included so you can test them yourself.

The session engines (Asia, London, New York) have two modes (setting 0 = *opening spike bracket*, 1 = *pre-open range breakout*):

- **1, pre-open range breakout** (default): EVA measures the session range (Asia: 00:00 to 07:00 GMT; London and New York: the hour before the open) and places one stop order above and one below.
- **0, opening spike bracket:** places the stop orders around the last M1 bars before the open, to take the first move. In New York it can add a second bracket at 08:30 New York time, when US data comes out.

Every trade carries

- A real stop-loss (2.50 USD of gold price by default) and take-profit (8.00), clamped to the broker's minimum distance
- No grid, no martingale, no averaging. When one side of a range fills, the other is cancelled
- **Breakeven:** at +3.00 USD the stop moves to entry +0.50
- **GoldLock:** from a +4.00 USD peak the stop keeps 50% of the peak profit, and follows it
- Session trades are closed at 21:00 GMT, and everything is flattened on Friday at 21:00 GMT



1. **The breakout fills the BUY STOP:** The SELL STOP below is cancelled at once.
2. **The stop, now above the entry:** A losing exit is no longer possible.
3. **The target, where it was:** 8 USD from the entry by default.

Strategy Tester · XAUUSD M5 · 2026-06-16

The range filter

If the session range is smaller than 1.5 USD or wider than 60 USD the day is skipped. A range of 100 USD is not a range to break out of, it is a market that already moved.

The volatility filter

The engines only arm when ATR(M15) is at least 4 USD (setting *Trade only when gold moves*). We measured ten years of gold ticks: in calm markets the stop and the spread are large against the movement and the breakout lost money, so below that level EVA waits. Open trades are never touched by the filter. Set it to 0 to trade in any market.

Other symbols

The engines are calibrated for gold. On any other symbol they stay off and the pill says **NOT GOLD: ENGINES OFF**; the panel and the manual tools keep working. To run them anyway, switch on *Let the engines trade symbols other than gold*: distances then scale with the symbol's ATR.

8. Account guard and prop firm mode

Limit	Setting	Default
Daily loss, % of the day-start balance	Max daily loss %	8%

Limit	Setting	Default
Weekly loss, % of the week-start balance	Max weekly loss %	off
Drawdown from the balance peak	Max drawdown %	off
Stop after a daily profit	Stop after +% daily profit	off
Warning when a limit is this % used	Warn once when a loss limit is this % used	80%
Max spread to open a trade	Max spread (USD)	0.60 USD
Max lot per trade	Max lot per trade	broker limit

The day and week start balances are read from the account history, so a restart or a terminal crash never resets them. When a limit holds, EVA opens nothing new (engines and manual) and the pill shows the reason. With the **account guard** on, a loss limit also closes manual trades and other experts' trades on the account (off by default).

Prop firm mode: daily loss 4.5% and total drawdown 9.5% by default (a buffer below the usual 5% and 10%), a profit target that stops trading when reached (8%), an optional consistency rule and the trading days the firm requires. Everything is closed when a limit is hit.

9. News shield

Uses the MetaTrader economic calendar, live only. By default it pauses the engines around **NFP** (60 min before, 60 after), **CPI** (30 / 60) and **FOMC** (60 / 150), and deletes pending orders before the event. Open trades keep their stops unless you switch on *Close open positions before news*. Bond auctions are ignored (the calendar marks them high impact and they would block the New York open almost every day). Optionally EVA can also pause around every other high-impact USD event (30 min before and 15 after by default). The Strategy Tester has no calendar, so backtests run without the shield.

10. What your broker really costs

Every EVA fill (engines and manual) adds three costs in account money: the **spread** paid at entry, the **slippage** against the requested price (entries and exits) and the **commission**. Totals are kept per calendar month, survive restarts and show on the COST tab of the panel. Run EVA on two brokers for a month and compare.

11. AI notes and ASK EVA

- **Notes:** a short text when an engine order fills and when a trade closes (how it ended: stop, target, profit lock, or closed by EVA), and one market briefing a day at 07:00 GMT. They show on the AI NOTE tab, on the AI NOTES screen and on Telegram.
- **ASK EVA:** type a question on that screen or as a plain message to your Telegram bot. Every question carries the live state of your account, so the answer is about your account: why it is not trading, today's trades, the month's broker cost, what a setting does. The chat keeps the last few messages and starts over after 30 idle minutes. It explains and points to the button or command; it never opens, closes or changes trades.
- **Changing settings from the chat:** ask EVA for a change ("lower the risk to 0.5%", "switch off the Asia engine", "close everything on Friday at 18 GMT"). EVA explains it and shows a **PROPOSED CHANGE** card with each setting, its value now and the new one. Nothing changes until you press **CONFIRM**; **CANCEL** drops it. The card waits 10 minutes and goes with a new question or a NEW CHAT.
- Before showing it, EVA checks every value with the same rules as the panel: a setting that does not exist or a value out of range never shows. At most 5 changes at once.

- It never proposes the keys, the Telegram token or chat ID, the AI settings or the magic number: those are changed by hand.
- **More risk** (a bigger lot or risk, a looser or switched-off loss limit, the news filter or the weekend close switched off, an engine that is off by default, switching to sizing by risk): the card turns amber, says why, shows the lot of the engine trades before and after, and CONFIRM has to be pressed twice (**SURE?**).
- If the change would have no effect (for example a risk % while the engines trade a fixed lot), the card says so.
- Once applied, the card turns green (**CHANGE APPLIED**) with **OK** and **UNDO**. UNDO puts back only those settings, for 10 minutes and while nobody changed them again. The change works at once; SAVE (or AUTOSAVE) keeps it after a restart.
- It can be confirmed from Telegram too (section 12).
- **History**: every conversation is saved for this account. **HISTORY** lists them, a click opens one to read it, and **DELETE THIS CHAT** or **DELETE ALL CHATS** remove them (press twice to confirm). The newest 50 conversations are kept. **CONTINUE THIS CHAT** picks up a saved conversation where it stopped.
- **Typing in the chat**: press **Enter** or **SEND** to ask. To paste, use **Ctrl+V** or **right-click > Paste**. If you switch to another window while typing, the text stays in the box.
- **Keys**: pick the provider in ALL SETTINGS > AI NOTES: PROVIDER and paste the key in its box, or in F7. Each provider keeps its own key and model: switching back and forth never loses them. The model list is read live from the provider.
- **Providers**: Google Gemini (default) and Groq (default backup) work with free keys, from aistudio.google.com and console.groq.com/keys. OpenRouter gives free and paid models with one key. Paid providers: OpenAI, Anthropic Claude, DeepSeek, Mistral and xAI Grok. Any OpenAI-compatible URL also works, such as a local Ollama. Leave the model on AUTOMATIC and EVA picks one for the provider, free models first.
- **What it costs**: every answer reports the tokens it used. The AI NOTES screen shows the tokens of today and the cost of the month, notes and chat together. EVA carries a price list of the paid models (September 2026). Prices change: set your own in the two *Paid models: USD per 1M tokens* settings and EVA uses them for the main provider. Free keys show FREE.
- **Backup**: when the main provider is busy or fails, the backup answers. If both are busy, the note is retried after 1, 2 and 4 minutes. In ASK EVA, ask again a minute later.
- **Limits**: 30 note calls and 40 chat questions per day by default, to stay inside free tiers.
- **Free model at its daily limit**: free keys allow a set number of requests per model each day. With the model on AUTOMATIC, when Gemini or Groq answers that a model reached its daily limit, EVA moves at once to the next free model of the same provider (Gemini: Flash, then Flash-Lite and other Flash models) and keeps it for the rest of the day. The Experts log shows a line when it switches. A Gemini model that answers busy rests 10 minutes and the next free one answers, so the backup provider is only asked when none of them can.
- **Language**: the notes come in the language of EVA (section 5); ASK EVA answers in the language you write in.
- **Telegram**: a question sent from Telegram is answered in its language, and the change card and the messages about that change (/confirm, /undo) come in that language too, whatever the language of EVA.

12. Telegram

1. In Telegram, talk to **@BotFather**, send `/newbot` and copy the token.
2. Allow `https://api.telegram.org` in WebRequest (section 2).
3. In EVA open MENU > **TELEGRAM**, paste the token in **BOT TOKEN** (Ctrl+V or right-click > Paste) and press **CONNECT** (or Enter).
4. Open your bot in Telegram and press **Start** (or send it any message, if Start is gone). Within a few seconds EVA links your chat by itself, saves the token and the chat, and sends you a message. There is no chat ID to type.

The link waits 10 minutes after the token is entered: the first chat that writes to the bot in that time is linked, and from then on EVA ignores every other chat. To use another chat (a group, another account), press **CHANGE CHAT** and write to the bot from that chat within 10 minutes (meanwhile the current chat keeps working, and **CANCEL** keeps it); if the time ran out, **LINK A CHAT** opens it again. A new bot keeps the same chat: paste its token, press **CONNECT** and press **Start** in the new bot; EVA saves the new token as soon as the bot answers.

In F7 the token and the chat ID are inputs too: leave the chat ID empty and EVA links the chat that presses Start in the 10 minutes after the EA starts.

EVA sends trade opens and closes, guard alerts (limits, targets, weekend close), the AI notes and a daily summary at 21:00 GMT. Each of them switches on or off with a click in **WHAT IS SENT** on the TELEGRAM screen; the hour of the summary and the notification sound are in ALL SETTINGS > TELEGRAM. Commands, from your chat only (any other chat is ignored):

Command	What it does
<code>/status</code>	Engines, pill, today's result
<code>/positions</code>	Open positions and pending orders
<code>/today</code> or <code>/report</code>	Today's closed trades and result
<code>/note</code>	The last AI note
<code>/pause</code> , <code>/resume</code>	Pause or resume the engines
<code>/new</code>	Start a new ASK EVA chat
<code>/confirm <code></code>	Apply the change EVA proposed (the message carries the code)
<code>/cancel</code>	Drop the change proposed
<code>/undo_<code></code>	Take back the change just applied (for 10 minutes)
<code>/help</code>	The list of commands

Any other text is a question for ASK EVA.

When EVA proposes a settings change, the Telegram message carries the card as text and a 4-digit code that changes every time. A normal change is confirmed by tapping `/confirm_1234`; a riskier one only by typing `/confirm 1234`, so it never goes in with a stray tap. What you confirm, cancel or undo on one side shows on the other. With *Answer commands from your chat* (`/status`, `/pause` ...) off, the card asks you to confirm in MT5.

13. Testing EVA in the Strategy Tester

1. Strategy Tester, Expert: **EVA Gold Engine**, Symbol **XAUUSD**, period **M5**.
2. Modelling: **Every tick based on real ticks**. Deposit 100 USD or more; the default lot is 0.01.
3. Press Start. Tick **Visual mode** to watch the panel while it trades.

The engines run exactly as they do live. The AI, Telegram, the news calendar and the settings file do not exist in the tester: it always uses the F7 inputs. Results depend heavily on gold's volatility: test several periods, not only the last year.

14. Why is it not trading

Message in the Experts log	Meaning
[Asia Range] skip: volatility too low, ATR(M15) 3.10 USD under the 4.0 minimum	The volatility filter: gold is too quiet
[Asia Range] range 4300.71 - 4360.92 (60.21 USD) outside 1.5-60.0 USD	The range filter skipped the day
[New York Open] session window already over for today	The EA was attached after the window
[News shield] PAUSED for 'CPI m/m'	NFP, CPI or FOMC window
skip: spread	The spread is above the maximum spread
skip: exposure cap / skip: pending cap	Max open positions or pending orders reached
skip: not enough free margin	The account cannot hold the trade
Guard: daily loss limit reached, trading paused until next day	A loss limit holds
restored today's state after the restart	That engine already traded today and will not repeat it
Symbol guard: the engines are calibrated for gold	The chart is not gold

Or ask EVA: "why did EVA not trade today?" on the ASK EVA screen or on Telegram.

15. Other details

- **Floating engine dashboard:** besides the engine block inside the panel, EVA can show a floating text dashboard with the engines' detail (group 7. DASHBOARD AND EXECUTION). It is off by default.
- **Magic number:** manual trades use the base number (71100) and the engines base+1 to base+6. If you put EVA on two charts of the same symbol on the same account, change the base on one of them (F7 only).
- **Several charts:** each account and symbol has its own settings file.
- **Pause and restart:** the engines' pause and what each engine already did that day survive a terminal restart.

16. All settings

Each row has the name, the same in MetaTrader's inputs window (**F7**) and in the panel's **ALL SETTINGS**, the default value and what it does. The groups are in the same order in F7 and on the panel. In F7, the lines that start with `===` or `---` are only group titles. USD distances are dollars of gold price movement (1 USD = from 4000.00 to 4001.00).

CORE ENGINES

In F7: `=== EVA GOLD ENGINE: CORE ENGINES (deterministic, run in the tester) ===`

F7 and panel	Default	What it does
Core Engines ON (AI is an optional layer on top)	Yes	Switches the six engines on or off at once. Off, EVA stays as panel, manual trading, guard and AI

1. POSITION SIZING

In F7: `--- CE 1. Position sizing ---`

F7 and panel	Default	What it does
Sizing mode	Fixed lot	How the engines size a trade: Fixed lot or Risk % of balance per trade
Fixed lot	0.01	The lot of every engine trade in fixed lot mode
Risk % per trade (risk mode)	1.0	In risk mode, the share of the balance lost if the stop is hit
Auto lot scaling by balance (fixed mode)	No	In fixed lot mode, raises the lot as the balance grows
Scaling base balance (0 = balance at start)	0.0	The balance the scaling starts from
Balance step for +1 lot step	500.0	How much balance gained adds one lot step
Lot step added per balance step	0.01	How much lot each step adds
Max lot when scaling	0.05	Cap of the scaled lot
Max simultaneous positions (all engines)	3	How many engine trades can be open at once
Max simultaneous pending orders	6	How many engine pending orders can exist at once

2. ENGINES

In F7: --- CE 2. Engines ---

F7 and panel	Default	What it does
Engine 1: Asia range breakout	Yes	Switches the Asia engine on
Engine 2: London open breakout	No	Switches the London engine on
Engine 3: New York open breakout	Yes	Switches the New York engine on
Engine 4: M5 momentum breakout	No	Switches the momentum engine on
Engine 5: M1 impulse breakout	No	Switches the pulse engine on
Engine 6: M30 volume surge breakout	No	Switches the volume engine on
Let the engines trade symbols other than gold (they are calibrated for XAUUSD)	No	Lets the engines run on other symbols; distances scale with the symbol's ATR. Next start
Broker GMT offset in hours (99 = auto)	99	99 finds the broker time and daylight saving by itself. Set a number only if your broker uses an unusual time

2A. SESSION ENGINES

In F7: --- CE 2a. Session engines (Asia / London / New York) ---

F7 and panel	Default	What it does
0 = opening spike bracket, 1 = pre-open range breakout	1	The mode of the session engines (section 7)
Bracket: M1 bars before the open	3	Mode 0: how many M1 bars before the open form the bracket
Bracket: stop distance beyond the bars (USD)	0.10	Mode 0: how far from those bars the orders go
Bracket: pending orders lifetime (min)	20	Mode 0: how long the orders live if not filled
New York: extra bracket at 08:30 NY (US data)	Yes	Mode 0: a second bracket at 08:30 New York time
Asia open (GMT hour)	0	Mode 0: the hour of the Asia open
Asia range start (GMT hour, range mode)	0	Mode 1: from what hour the Asia range is measured

F7 and panel	Default	What it does
Asia range end (GMT hour, range mode)	7	Mode 1: until what hour; the orders are placed then
Asia range orders lifetime (min, range mode)	240	Mode 1: how long the Asia orders live
London open (local London hour)	8	The London open in local time; daylight saving is worked out by itself
New York open hour (local NY)	9	The New York open hour in local time
New York open minute (local NY)	30	The minute of the open (09:30)
Pre-open range length (min)	60	Mode 1: how many minutes before the London and New York opens the range is measured
London/NY pending orders lifetime (min)	120	Mode 1: how long the London and New York orders live
Breakout buffer above/below range (USD)	0.30	How far above and below the range the orders go
Min range size (USD), else skip	1.5	A range smaller than this is not traded
Max range size (USD), else skip (60: gold at 4000+ often ranges 40-60 overnight)	60.0	A range larger than this is not traded
Cancel the opposite order once one fills	Yes	When one side of the range fills, the other is deleted
Close session trades at (GMT hour, 0-23)	21	The hour the session engine trades are closed

2B. MOMENTUM ENGINE

In F7: --- CE 2b. Momentum engine (M5 breakout) ---

F7 and panel	Default	What it does
0 = market entry on expansion close, 1 = pending channel stops	0	0: enters at market when an expansion bar closes outside the channel. 1: places stop orders at the channel edges
Breakout lookback (M5 bars)	12	How many M5 bars form the channel
Mode 0: bar range $\geq$ ATR(M5) x this	1.2	How big the expansion bar has to be
Mode 1: arm only when channel width $\leq$ this (USD)	8.0	Mode 1: only narrow channels
Stop distance beyond the channel (USD)	0.20	Mode 1: how far from the channel the orders go
Pending orders lifetime (min)	15	Mode 1: how long the orders live
Max momentum trades per day	3	Daily cap of the engine
Min minutes between momentum trades	30	Wait between one trade and the next
Momentum window start (GMT hour)	6	From what hour it trades
Momentum window end (GMT hour)	19	Until what hour it trades
Momentum/Pulse blackout after London and NY opens (min)	45	Minutes without momentum or pulse trades after each open, to stay out of the session engines' way

2C. PULSE ENGINE

In F7: --- CE 2c. Pulse engine (M1 impulse continuation, pending stop) ---

F7 and panel	Default	What it does
Impulse bar range $\geq$ ATR(M1) x this	3.0	How big the impulse bar has to be
Close within top/bottom % of the bar	30.0	The bar has to close near its extreme

F7 and panel	Default	What it does
Stop distance beyond the impulse extreme (USD)	0.15	How far from the extreme the stop order goes
Pending order lifetime (min)	3	How long the order lives
Max pulse trades per day	3	Daily cap of the engine
Min minutes between pulse trades	20	Wait between trades
Pulse window start (GMT hour)	6	From what hour it trades
Pulse window end (GMT hour)	19	Until what hour it trades

2D. VOLUME SURGE ENGINE

In F7: --- CE 2d. Volume surge engine (M30, tick volume acceleration) ---

F7 and panel	Default	What it does
Volume engine timeframe	M30	The timeframe of the bars it reads. Next start
Volume average period (bars)	20	How many bars form the average volume
Bar volume >= average x this	2.0	How big the volume surge has to be
Require rising volume over the last 3 bars	Yes	Only when the volume has been rising
Bar range >= ATR x this	1.0	The bar also has to be large
Close within top/bottom % of the bar	35.0	The bar has to close near its extreme
0 = market at bar close, 1 = stop beyond the bar extreme	0	How it enters
Mode 1: stop distance beyond the extreme (USD)	0.20	Mode 1: how far from the extreme the order goes
Mode 1: pending order lifetime (bars)	3	Mode 1: how long the order lives
Volume engine stop-loss (USD, 0 = global)	6.0	Its own stop; 0 uses the general stop
Volume engine take-profit (USD, 0 = global)	12.0	Its own target; 0 uses the general one
Volume engine time stop (hours, 0 = off)	36	Closes the trade after these hours
Max volume trades per day	1	Daily cap of the engine
Volume window start (GMT hour)	1	From what hour it trades
Volume window end (GMT hour)	20	Until what hour it trades

3. STOPS AND TARGETS

In F7: --- CE 3. Stops and targets (USD of XAUUSD price movement) ---

F7 and panel	Default	What it does
Stop-loss mode	Fixed distance (USD of price)	Fixed distance (USD of price) or ATR(M15) multiple
Stop-loss distance (USD)	2.50	The stop of every engine trade (fixed mode)
ATR(M15) multiple (ATR mode)	1.5	In ATR mode, the stop is ATR(M15) times this value
Min stop distance (USD)	1.00	ATR mode: the stop is never closer
Max stop distance (USD)	6.00	ATR mode: the stop is never farther
Trade only when gold moves: min ATR(M15) in USD (0 = always)	4.0	The volatility filter (section 7)

F7 and panel	Default	What it does
Scale every trade distance with the day's volatility (research)	No	Adjusts stops, targets and buffers to the day's volatility. Experimental
Volatility the USD distances were set for (mean M15 range of a day, USD)	9.0	The reference of the setting above
Take-profit distance (USD, 0 = none)	8.00	The target of the engine trades
Breakeven	Yes	Moves the stop to entry when the trade is in profit
Breakeven trigger (USD profit)	3.00	From how much profit
Breakeven offset (USD locked)	0.50	How much it locks above entry
GoldLock progressive profit protection	Yes	Switches GoldLock on
GoldLock starts at (USD peak profit)	4.00	From what peak profit it starts
GoldLock keeps % of peak profit	50.0	How much of the peak profit it protects
GoldLock mode	Move the broker stop-loss (visible)	Move the broker stop-loss (visible) or Virtual level, close at market when hit
Min improvement to move the stop (USD)	0.25	Avoids moving the stop by cents
Time stop in minutes (0 = off)	0	Closes any engine trade after these minutes

4. RISK GUARDS

In F7: --- CE 4. Risk guards ---

F7 and panel	Default	What it does
Max spread (USD, 0 = off)	0.60	With a wider spread nothing is opened
Max daily loss % of day-start balance (0 = off)	8.0	Loss limit of the day
Max drawdown % from balance peak (0 = off)	0.0	Limit of the fall from the balance peak
Stop after +% daily profit (0 = off)	0.0	Stops trading for the rest of the day after gaining this %
Flatten before the weekend	Yes	Closes everything on Friday
Friday flatten hour (GMT)	21	At what hour on Friday
Max weekly loss % of week-start balance (0 = off, kept across restarts)	0.0	Loss limit of the week
Max lot per trade (0 = broker limit)	0.0	Lot cap for any EVA trade
Warn once when a loss limit is this % used (0 = off, only logs)	80.0	Early warning on the panel and Telegram

5. NEWS SHIELD

In F7: --- CE 5. News shield (MT5 economic calendar, live only) ---

F7 and panel	Default	What it does
News shield: NFP / CPI / FOMC windows (the backtest runs without it)	Yes	Switches the shield on (section 9)
Also pause around every other 'high-impact' USD event of the MT5 calendar (blocks many NY opens)	No	Extends the shield to every high-impact USD event
Minutes before news	30	Pause before those other events

F7 and panel	Default	What it does
Minutes after news	15	Pause after those other events
Delete pending orders before news	Yes	Deletes the engine orders when the window starts
Close open positions before news	No	Also closes the open trades
NFP window 60 min before / 60 after	Yes	Pause around NFP
CPI window 30 min before / 60 after	Yes	Pause around CPI
FOMC window 60 min before / 150 after	Yes	Pause around FOMC
Ignore bond auctions (the MT5 calendar flags them high-impact)	Yes	No pause for bond auctions

6. PROP-FIRM PROTECTION

In F7: --- CE 6. Prop-firm protection ---

F7 and panel	Default	What it does
Prop-firm mode	No	Switches on the protection for challenges
Challenge start balance (0 = balance at start)	0.0	The balance the target and the drawdown start from
Profit target % (stop trading when reached)	8.0	When reached, trading stops
Max daily loss % (buffer below the firm limit)	4.5	Daily limit of prop mode
Max total drawdown % (buffer below the firm limit)	9.5	Total limit of prop mode
Close everything when a limit is hit	Yes	Closes everything when a prop limit is hit
Consistency rule: stop the day at this % of the profit target (0 = off)	0.0	For firms that do not want one day to make almost the whole target
Trading days the firm requires (0 = off, only shown)	0	Shown next to the target so you can keep count
Account guard: a loss limit also closes manual trades and other experts' trades	No	The guard protects the whole account, not only EVA

7. DASHBOARD AND EXECUTION

In F7: --- CE 7. Dashboard and execution ---

F7 and panel	Default	What it does
Visual testing: hide the indicators the EA computes (clean chart)	Yes	In the tester's visual mode, the internal indicators are not drawn. Next start
Also show the floating engine dashboard (the engine block is always inside the EVA panel)	No	Shows the floating text dashboard (section 15). Next start
Dashboard X	12	Horizontal position of the floating dashboard. Next start
Dashboard Y	28	Vertical position of the floating dashboard. Next start
Dashboard font size	9	Font of the floating dashboard. Next start
Max slippage / deviation (USD)	0.30	Price deviation accepted when an order is sent
Magic number base (manual trades use the base, engines base+1..6)	71100	Identifies EVA's trades. F7 only

F7 and panel	Default	What it does
Trade comment	EVA	The comment of every trade. F7 only

AI NOTES

In F7: --- AI NOTES (optional, free keys work, never decides trades) ---

F7 and panel	Default	What it does
AI notes on engine trades (set the provider and key below)	Yes	Switches the AI notes on (they need a provider and a key)
Note when an engine order fills	Yes	A note on every entry
Note when an engine trade closes	Yes	A note on every close
One market briefing per day	Yes	The daily briefing
Briefing hour (GMT), right after the Asia range	7	At what hour it arrives
Cap on AI calls per day (keeps free tiers safe)	30	Maximum notes per day
Forward AI notes to Telegram (when Telegram is enabled)	Yes	Sends the notes to your chat
Show AI notes as chart alerts	No	Shows every note in MetaTrader's alert window
Ask EVA: questions per day (keeps free tiers safe)	40	Maximum chat questions per day (screen and Telegram)

AI NOTES: PROVIDER

In F7: --- AI NOTES: PROVIDER ---

F7 and panel	Default	What it does
AI provider for the notes	Google Gemini (free key)	The main provider of the notes and the chat (section 11)
API key (free keys work)	empty	The key of the main provider. One is kept per provider
Model (empty = picked automatically, free models first)	empty	The model; on the panel it is a list with the provider's models
Custom provider: chat-completions URL	empty	The address of an OpenAI-compatible server (for example a local Ollama)
Language of EVA: screens, panel, Telegram, AI	Automatic (MetaTrader's language)	The language of all of EVA (section 5)
Backup provider when the main one is busy or fails	Groq (free key)	The backup provider
Backup API key (empty = no backup)	empty	The key of the backup
Backup model (empty = picked automatically)	empty	The model of the backup
Paid models: USD per 1M input tokens (0 = EVA's price list)	0.0	Your input price, to work out the cost
Paid models: USD per 1M output tokens (0 = EVA's price list)	0.0	Your output price, to work out the cost

PANEL AND MANUAL TRADING

In F7: --- GOLD ENGINE: PANEL AND MANUAL TRADING ---

F7 and panel	Default	What it does
Show the EVA panel	Yes	Shows the panel. Next start
Panel size (lower if too big, higher if too small)	1.0	Scale of the panel and the screens. Next start
Manual trades sized by risk % (false = fixed lot)	No	The mode the SIZE BY LOT / SIZE BY RISK % button starts in
Manual fixed lot	0.01	Lot of the manual trades
Manual risk % per trade (risk mode)	1.0	Risk of the manual trades
Manual take-profit as a multiple of the stop (0 = no target)	2.0	The target of BUY / SELL and PLAN
Breakeven button: profit kept (USD)	0.50	How much the BREAKEVEN button locks
Manual trades: automatic breakeven after this profit (USD, 0 = off)	0.0	Breakeven for the manual trades only
Manual trades: trailing stop distance (USD, 0 = off)	0.0	Trailing stop for the manual trades

TELEGRAM

In F7: --- TELEGRAM (optional) ---

F7 and panel	Default	What it does
Bot token (from @BotFather in Telegram)	empty	The token of your bot (section 12)
Send trade opens and closes	Yes	A message on every open and close
Send guard alerts (loss limits, targets, weekend close)	Yes	Guard alerts
Send a daily summary	Yes	The summary of the day
Daily summary hour (GMT), after the New York session	21	At what hour it arrives
Answer commands from your chat (/status, /pause ...)	Yes	Off, the bot only sends
Send without notification sound	No	Silent messages
Chat ID (empty = EVA links the chat that presses Start in your bot)	empty	Your chat; only that chat receives messages and gives commands

Trading involves risk. Past results, including any backtest, do not guarantee future performance. Support: the comments section of the EVA Gold Engine page on MQL5.