

AURUM INSTINCT EA

User Guide

Version 1.32 · MetaTrader 5 and MetaTrader 4 · XAUUSD (gold)

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1. Overview

Aurum Instinct EA trades gold (XAUUSD) with eleven breakout strategies. Every strategy places pending stop orders beyond price levels: a buy stop above a level and a sell stop below it. **Every order has a stop loss from the moment it is placed. The lot is never increased after a loss** (no martingale).

- **S1-S5** work with H1 levels, **S6-S8** with D1 levels, **S9** with H4 levels. An unfilled order expires after its lifetime.
- **S10, S11** watch the range of the last 1500 M15 bars and check it on every new H4 bar. Their stop and take profit are set in % of the price; the stop is moved to breakeven once.
- **Neural filter.** Two networks built into the EA decide whether to place a new order of S1-S9 and whether to keep a pending one. They keep learning in the terminal from the EA's own trades; the initial weights stay as an anchor.
- **Exit.** Take profit or Peak Trail: the position is closed when the price gives back a set part of the best profit. Optionally stop loss, take profit and a trailing stop in ATR of a chosen timeframe - separately for S1-S9 and for S10, S11.
- **Protection.** Weekend break, optional NFP pause, checks of margin, volume limits, stop and freeze levels before every request.

2. Quick start

1. Install the EA from the MQL5 Market. In MetaTrader it appears in *Navigator → Expert Advisors → Market*.
2. Open a chart of your broker's gold symbol (XAUUSD, GOLD, XAUUSD.r ...). Any timeframe: the EA uses its own timeframes.
3. Attach the EA. On the *Inputs* tab press *Load* and choose a preset: MetaTrader 5 - folder **sets**, MetaTrader 4 - **MT4\sets**.
4. Turn on *Algo Trading* (MT5) or *AutoTrading* (MT4) and allow algo trading in the EA properties.
5. Keep the terminal running around the clock on weekdays - use a VPS (section 4).

One chart per preset. Several presets on one account are possible when their **InpMagicBase** differ: all AURUM_INSTINCT presets have their own Magic; the six INSTINCT_* presets and AURUM_INSTINCT_risk_1_stop3 share 74800 - run only one of them per account and symbol, or change the base (for example 75100, 75200 ...). A new Magic starts a new learning state.

3. Broker and account

- **Choose an account with a low spread: RAW or ECN** (raw spread plus commission). The stop of S1-S9 is only 2 $: a spread of 0.30 $ already takes 15 % of it, so every cent of spread matters. Aim at an average gold spread of 0.20 $ or less in the London and New York sessions. The commission of RAW accounts (about 0.07 $ per 0.01 lot) is cheaper than the mark-up of standard accounts.
- MetaTrader 5: a **hedging** account. On a netting account the EA places new orders only while it has no open position. MetaTrader 4 accounts are always suitable.
- Leverage 1:100 or higher; 1:500 is convenient for small deposits and risk presets.
- Low stop and freeze levels (0-20 points). The EA checks them itself and does not send requests the broker would reject.
- The backtests were made on RoboForex (ECN) and Tickmill. Any broker with the conditions above suits.

4. VPS

- Run the EA on a **VPS with a delay of 1-10 ms to the broker's trade server** (the ping is shown in the right corner of the terminal's status bar). Choose a VPS in the same data center as the broker's server - for most gold brokers London (LD4/LD5) or New York (NY4).
- Why: pending orders wait on the broker's server, but Peak Trail, breakeven of S10, S11, the hourly review of orders by the network, placing and removing orders are done by the EA on every tick. Delays mean later exits and more slippage.
- The learning state is kept in **%APPDATA%\MetaQuotes\Terminal\Common\Files**, file *ai_learn_<symbol>_<account>_<magic>.bin*. When you move to another computer or VPS, copy this file to the same folder there. The built-in MetaQuotes VPS does not receive this file: there the EA starts learning from the initial weights.

5. Presets

Set files are in the folder **sets** (MT5) and **MT4\sets** (MT4). Fixed-lot presets trade 0.01 lot per order; **all presets that trade by risk use 1 % per order**, except the two ATR_universal presets (0.5 %, as tested). The backtest column shows the tested values; where the test was made with another risk, it is said so. LOW - fixed lot, MID/HIGH - by risk, GRID - risk with a grid of extra orders.

Preset	Group	Lot / risk	What it does	Deposit	Backtest
`AURUM_INSTINCT_fixlot_001.set`	LOW	0.01	Main: eleven strategies, neural filter with learning	from 1 000 USD, recommended 2 000	RoboForex 2024-2026: +3 069 $, PF 2.13, DD 1.4 %. Tickmill 2024-2026 (every tick): +6 699 $
`AURUM_INSTINCT_nfp_fixlot_001.set`	LOW	0.01	Main + pause around NFP releases	from 1 000 USD, recommended 2 000	RoboForex: +3 099 $, PF 2.15, DD 1.4 %. Tickmill (every tick): +6 491 $
`AURUM_INSTINCT_S1-S5_fixlot_001.set`	LOW	0.01	S1-S5 (H1 levels) with S10, S11: fewer orders at the same time	from 1 000 USD	RoboForex: +2 875 $, PF 2.11, DD 1.4 %
`AURUM_INSTINCT_no_learning_fixlot_001.set`	LOW	0.01	No learning: the same decisions on every terminal and in every test	from 1 000 USD	RoboForex: +2 948 $, PF 2.08, DD 1.6 %
`AURUM_INSTINCT_grid_fixlot_001.set`	LOW	0.01	Trend grid: one extra order 0.50 $ further in the direction of the trade, own 2 $ stop. The most profitable fixed-lot preset	from 500 USD, recommended 1 000-2 000	RoboForex: +4 102 $, PF 2.00, DD 1.7 %. Tickmill 2024-2026 (every tick): +10 539 $, from 500 USD - 11.0 K $
`AURUM_INSTINCT_win85_fixlot_001.set`	LOW	0.01	High win rate: stop 19 $, take 8-9 $, Peak Trail from 5 $. Many small profits, rare large losses	from 3 000 USD	RoboForex: +4 152 $, PF 1.70, DD 5.5 %, 82 % profitable. Tickmill (every tick): +6 275 $
`AURUM_INSTINCT_risk_1_stop2.set`	MID	1 %, lot ≤ 5	Risk 1 % per order, stop 2 $, lot not above 5. The lot grows with the balance	from 1 000 USD; for a moderate profile set the risk to 0.25-0.5 %	Tested with 0.25 % (Mid dashboard): x4.8 in 2024-2026, DD 11.9 %. At 1 % lots are 4 times larger, drawdowns much deeper
`AURUM_INSTINCT_ATR_universal_All.set`	MID	0.5 %, lot ≤ 50	INSTINCT_High_risk_(All) with stops picked by the optimizer (RoboForex 2024-2026, every year in profit, the fewest losing months): S1-S4, S6, S8, S9 stop 2 $; S5 and S7 own ATR H1; S10, S11 ATR M30 (stop 1, take profit 3 x ATR); learning on	from 1 000 USD	RoboForex from 1 000 USD every year: 2024 +108 %, 2025 +287 %, 2026 +568 %; PF 1.58-2.32, DD 14-20 %; 7 losing months of 34. Tickmill 2026 from 1 000 USD: +1 369 %, PF 3.71, DD 10.6 %, no losing month
`AURUM_INSTINCT_ATR_universal.set`	MID	0.5 %, lot ≤ 50	The same stops without learning, default net thresholds, Peak Trail from 1 $	from 1 000 USD	RoboForex from 1 000 USD every year: 2024 +60 %, 2025 +184 %, 2026 +436 %; PF 1.47-2.23, DD 14-18 %; 7 losing months of 34

AURUM_INSTINCT_risk_1_stop3.set	HIGH	1 %, no limit	Risk 1 % per order, stop 3 $, no lot limit (set InpMaxLot to limit it)	risk capital only, from 100 USD	Tickmill 2026 from 100 USD: 17.3 K $, PF 3.03, DD 44.3 %
INSTINCT_Low_risk.set	HIGH	1 %, lot ≤ 50	All strategies except S5, S7; stop 3 $; weekend break off	risk capital only, from 100 USD	Tested with 2 % (High dashboard), Tickmill 2026 from 100 USD: 104.0 K $, PF 7.16, DD 52.7 %
INSTINCT_High_risk.set	HIGH	1 %, lot ≤ 50	All strategies, stop 3 $, weekend break off	risk capital only, from 100 USD	Tested with 2 %: 100 USD -> 526.1 K $, PF 2.36, DD 49.0 %
INSTINCT_High_risk_(All).set	HIGH	1 %, lot ≤ 50	All strategies, stop 2 $, Peak Trail from 1.7 $, weekend break off	risk capital only, from 100 USD	Tested with 2 %: 100 USD -> 1.21 M $, PF 2.55, DD 47.3 %
INSTINCT_Mid_risk_S5+S7.set	HIGH	1 %, lot ≤ 50	Only S5, S7 (+ S10, S11), stop 2 $, weekend break off	risk capital only, from 100 USD	Tested with 2 %: 100 USD -> 16.3 K $, PF 1.97, DD 43.0 %
INSTINCT_High_risk_(Grid All).set	GRID	1 %, lot ≤ 50	All strategies + grid of 7 extra orders x1.6 volume, step 0.40 $, grid stop 7.5 $. Very high risk	risk capital only	Tested with 2 %, Tickmill 2026 from 10 000 USD: 3.20 M $, DD 70 %. Started in January 2025 the same settings lost the whole deposit
INSTINCT_High_risk_(Grid S5, S7).set	GRID	1 %, lot ≤ 50	Grid of 7 extra orders x1.6 on S5, S7 (+ S10, S11). Very high risk	risk capital only	Tested with 2 %, Tickmill 2026 from 10 000 USD: +2.42 M $, DD 51 %; the same January 2025 warning

- To change the risk, set **InpRiskPercent**: 0.25-0.5 % is a moderate profile, 1 % and more is high risk. Set **InpRiskPercent = 0** and **InpFixLot** to trade a fixed lot.
- The fixed-lot results scale with the lot: 0.02 lot gives twice the profit and twice the drawdown in money.
- The INSTINCT_* names (Low, Mid, High risk) are relative inside the high-risk group: all six are high risk; the two grid presets are very high.
- The folder **optimization** has presets and guides for your own optimization in the Strategy Tester: *opt_win* - the highest profit with at least 85 % profitable trades; *opt_atr_s1s9* and *opt_atr_s10s11* - stop loss, take profit, trailing stop and trailing step by ATR for S1-S9 and for S10, S11.

6. Inputs

The main inputs with their defaults. The presets change only some of them.

Input	Default	Description
Neural filter		
`InpFilterMode`	`1`	0 - off; 1 - scores new orders of S1-S9 and reviews pending ones every hour; 2 - new orders only
`InpEntryThr`	`0`	Score threshold for a new order (0 - from the weights, 0.50). Higher - fewer, more selective orders
`InpReviewThr`	`0`	Score threshold to keep a pending order (0 - from the weights, 0.30)
Learning in the terminal		
`InpLearn`	`true`	The nets keep learning from the results of the EA's own trades
`InpLearnShadow`	`true`	Also learn from rejected orders, followed virtually
`InpLearnRate`	`0.05`	Learning step; 0 - only apply the saved state
`InpLearnAnchor / InpLearnMaxShift`	`0.002 / 1.0`	Anchor to the initial weights and the limit of the correction
`InpLearnReset`	`false`	Reset the learned state at start (switch it back off after one start)
`InpLearnFile`	`(empty)`	State file in Common\Files; empty - named by symbol, account and Magic
Lot		
`InpFixLot`	`0.01`	Fixed lot of every order (used when the risk is 0)
`InpRiskPercent`	`0`	Risk per order, % of balance, counted from the stop of the order; 0 - fixed lot
`InpMaxLot`	`0`	Maximum lot when trading by risk (0 - no limit)
`InpMagicBase`	`74100`	Magic base: strategy N uses base + N. Different presets on one account need different bases
`InpDeviation`	`50`	Maximum slippage, points
Strategies S1-S9		
`InpS1 ... InpS5`	`true`	H1 levels; order lifetime S1 30 h, S2 20 h, S3 60 h, S4 55 h, S5 15 h
`InpS6 ... InpS8`	`true`	D1 levels; S6 35 h, S7 480 h and S8 432 h with one order per side
`InpS9`	`true`	H4 levels, 192 h, up to two orders per side
`InpHtfExit`	`0`	Exit of S6-S9: 0 - common (stop, take, Peak Trail); 1 - own (breakeven, trailing)
`InpHtfWeekGap`	`true`	The weekend break also applies to S6-S9

Strategies S10, S11		
`InpS10 / InpS11`	`true`	Breakout of the range of the last 1500 M15 bars, checked on every new H4 bar
`InpS10StopPct / InpS10TakePct`	`0.50 / 0.40`	S10 stop loss and take profit, % of the order price
`InpS11StopPct / InpS11TakePct`	`0.90 / 0.50`	S11 stop loss and take profit, % of the order price
`InpS10Bars, MinDist, Orders, LifeMin, Lot2`	`1500, 0.30, 2, 10000, 1.0`	Range depth, minimum distance of the level, orders per side, lifetime (min), lot of the next orders (S11: Lot2 1.5)
`InpS11Gate`	`true`	S11 market regime filter (decline on M15 or rise on H4)
`InpLegLotMult`	`1.0`	Lot of S10, S11 relative to the lot of S1-S9
`InpLegBE, BeStart, BeShift`	`true, 0.15, 0.03`	Move the stop once: after a 0.15 % move, to entry +/- 0.03 %
`InpLegMaxSpread`	`300`	No S10, S11 orders while the spread is wider, points
`InpLegAtrOn`	`false`	S10, S11: stop loss and take profit by ATR instead of % of price, plus a trailing stop by ATR
`InpLegAtrTf, Period`	`H1, 14`	S10, S11: ATR timeframe and period (ATR of the last closed bar)
`InpLegAtrSl / InpLegAtrTp`	`1.5 / 1.0`	S10, S11: stop (plus spread) and take profit, x ATR from the order price
`InpLegAtrTrail / InpLegAtrStep`	`0.6 / 0.1`	S10, S11: trailing stop distance and step, x ATR; the trailing starts when the profit reaches the distance (0 - no trailing)
Stop loss, take profit, Peak Trail		
`InpStopUsd`	`2.0`	Stop loss of S1-S9, $ from the order price (on gold 1 $ = 1 $ of price)
`InpTpUsd / InpTpS2Usd`	`15 / 14`	Take profit, $ (S2 has its own)
`InpPeakTrailOn, Start, Giveback`	`true, 1.0, 50`	Peak Trail: from +1 $ the position is closed when 50 % of the best profit is given back
`InpSpreadHold...`	`true, 0.75, 0.20, 2`	During a spread spike wider than 0.75 $ the close waits for confirmation (2 ticks) unless the pullback is deeper than 0.20 $
Stop loss, take profit and trailing stop by ATR (S1-S9)		
`InpAtrOn`	`false`	S1-S9: stop loss and take profit by ATR instead of $, plus a trailing stop by ATR. S6-S9 with their own exit (InpHtfExit = 1) keep their own stops
`InpAtrTf, Period`	`M15, 14`	S1-S9: ATR timeframe and period (on gold in 2026 ATR(14) M15 is about 9 $)
`InpAtrSl / InpAtrTp`	`0.25 / 1.6`	S1-S9: stop and take profit, x ATR (about 2 $ and 15 $ - like the default dollar values); with a risk per order the lot is counted from this stop

InpAtrTrail / InpAtrStep	0.5 / 0.1	S1-S9: trailing stop distance and step, x ATR; the stop only moves forward, at least by the step. Peak Trail keeps working unless switched off
Own stop loss, take profit and trailing stop by ATR (S5, S7)		
InpS5AtrOn / InpS7AtrOn	false	S5 / S7: own stop, take profit and trailing by ATR instead of the common S1-S9 values; works also when InpAtrOn is off
…AtrTf, …AtrPeriod	M15, 14	Own ATR timeframe and period
…AtrSl / …AtrTp	0.25 / 1.6	Own stop and take profit, x ATR
…AtrTrail / …AtrStep	0.5 / 0.1	Own trailing stop distance and step, x ATR (0 - no trailing)
Weekend, news		
InpWeekendGap	true	No new orders over the weekend
InpFridayStopMin / InpMondayStartMin	240 / 240	No new orders 240 min before the Friday close and 240 min after the Monday open
InpNfpPause, LeadMin, TailMin	false, 100, 60	NFP pause: pending orders of S1-S9 are removed 100 min before, new ones from 60 min after. MT5 takes the time from the terminal calendar, MT4 from the built-in dates
Trend grid		
InpGridOn	false	Extra stop orders behind every order of S1-S9, in the direction of the trade, each with its own stop
InpGridLevels, Step, LotMult	1, 0.5, 1.0	Number of extra orders, step ($), volume multiplier of every next one
InpGridStopUsd / InpGridTrailStart	2.0 / 1.0	Stop of an extra order ($) and the start of its Peak Trail
Placement, other, panel		
InpMaxSpread	0	Maximum spread to place orders of S1-S9, points (0 - no check)
InpNoPassWithPos	true	No new order while a position of the same strategy is open on that side
InpS5Skip	0.8	S5 skips a level closer than this to the market, $
InpTradeBuy / InpTradeSell	true	Allow buys / sells
InpPanel, Font, Rows	true, 9, 5	Information panel on the chart
InpOptWin / InpOptWinMin	false / 0	Strategy Tester only: optimization criterion by the share of profitable trades

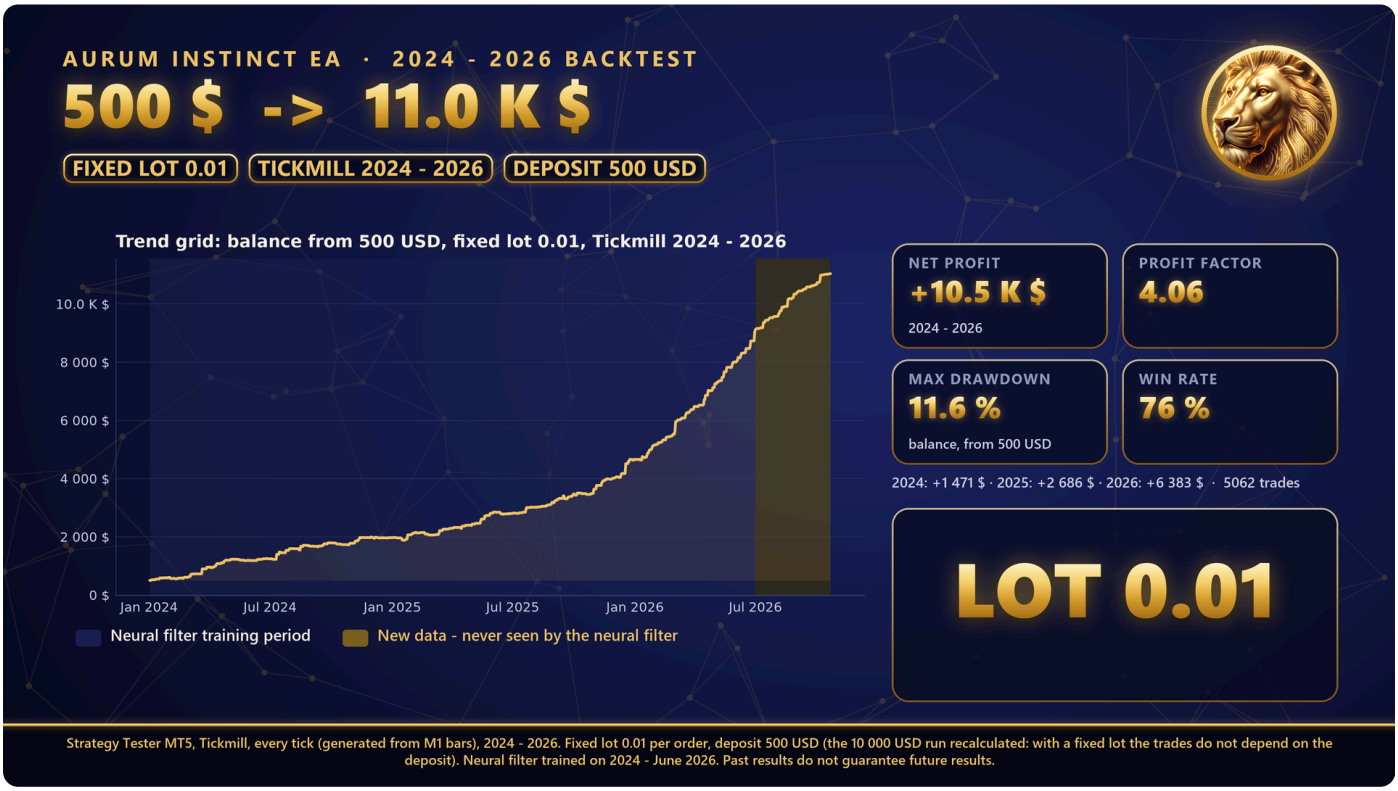
7. Dashboards

The dark part of the chart is the period on which the neural filter was trained, the gold part is new data the filter has never seen. Strategy Tester MetaTrader 5, 200 ms delay. Past results do not guarantee future results.

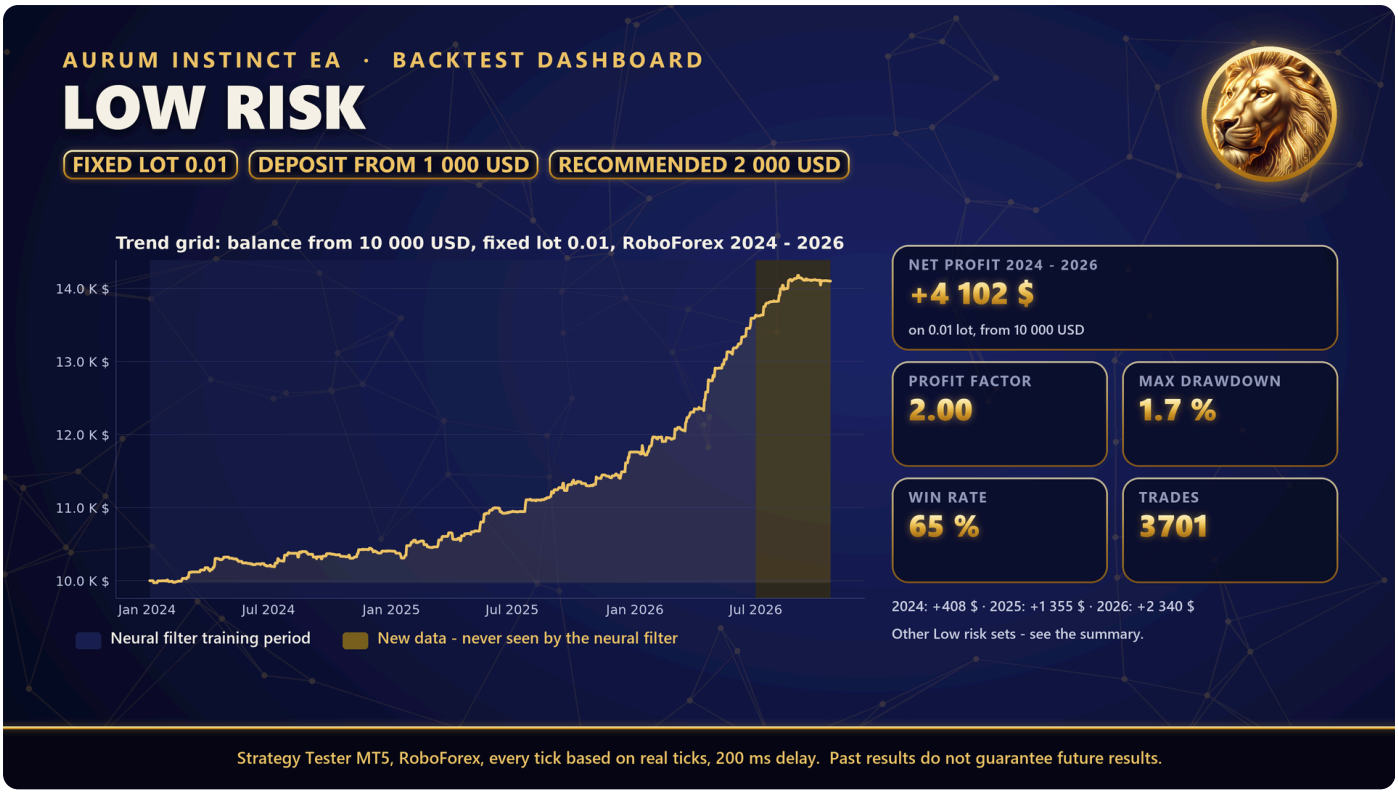


GROUP	SET	BACKTEST	PF	MAX DD	WIN	DEPOSIT
LOW	Trend grid	+4 102 $ on 0.01 lot	2.00	1.7 %	65 %	from 1 000 USD
LOW	NFP pause	+3 099 $ on 0.01 lot	2.15	1.4 %	67 %	from 1 000 USD
LOW	Main	+3 069 $ on 0.01 lot	2.13	1.4 %	66 %	from 1 000 USD
LOW	S1-S5 + S10, S11	+2 875 $ on 0.01 lot	2.11	1.4 %	66 %	from 1 000 USD
LOW	No learning	+2 948 $ on 0.01 lot	2.08	1.6 %	65 %	from 1 000 USD
LOW	High win rate	+4 152 $ on 0.01 lot	1.70	5.5 %	82 %	from 3 000 USD
MID	Risk 0.25 %	x4.8 from 10 000 USD	1.86	11.9 %	66 %	from 1 000 USD
HIGH	Risk 2 %, no S5, S7	100 $ -> 104.0 K $ in 2026	7.16	52.7 %	83 %	FROM 100 USD
HIGH	Risk 1 %, stop 3 $	100 $ -> 17.3 K $ in 2026	3.03	44.3 %	80 %	FROM 100 USD
HIGH	Risk 2 %, stop 2 $	100 $ -> 1.21 M $ in 2026	2.55	47.3 %	71 %	FROM 100 USD
HIGH	Risk 2 %, stop 3 $	100 $ -> 526.1 K $ in 2026	2.36	49.0 %	78 %	FROM 100 USD
HIGH	Risk 2 %, S5 + S7 only	100 $ -> 16.3 K $ in 2026	1.97	43.0 %	71 %	FROM 100 USD

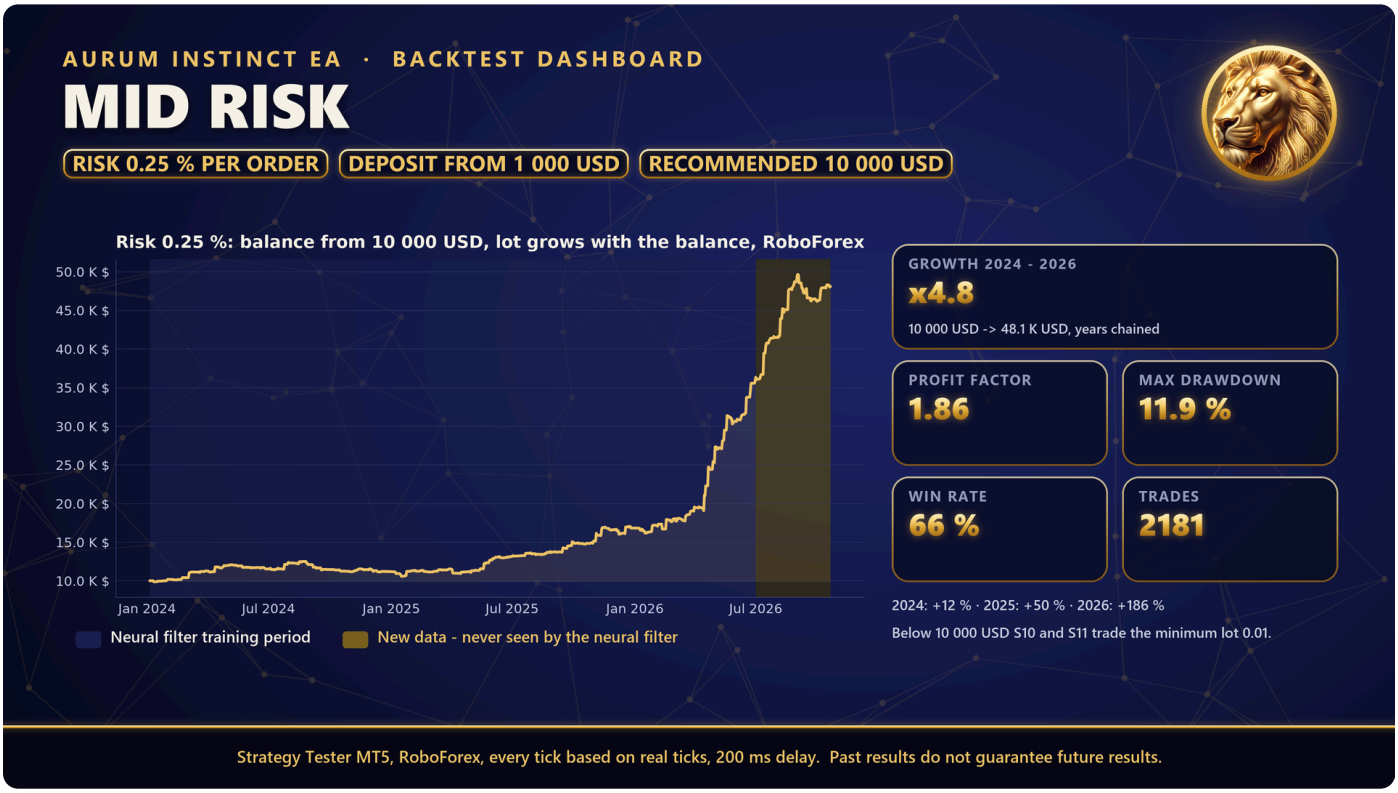
All preset groups. Low and Mid: RoboForex 2024-2026, real ticks. High: Tickmill 2026 from 100 USD. The risk shown is the tested one; the shipped risk presets use 1 %.



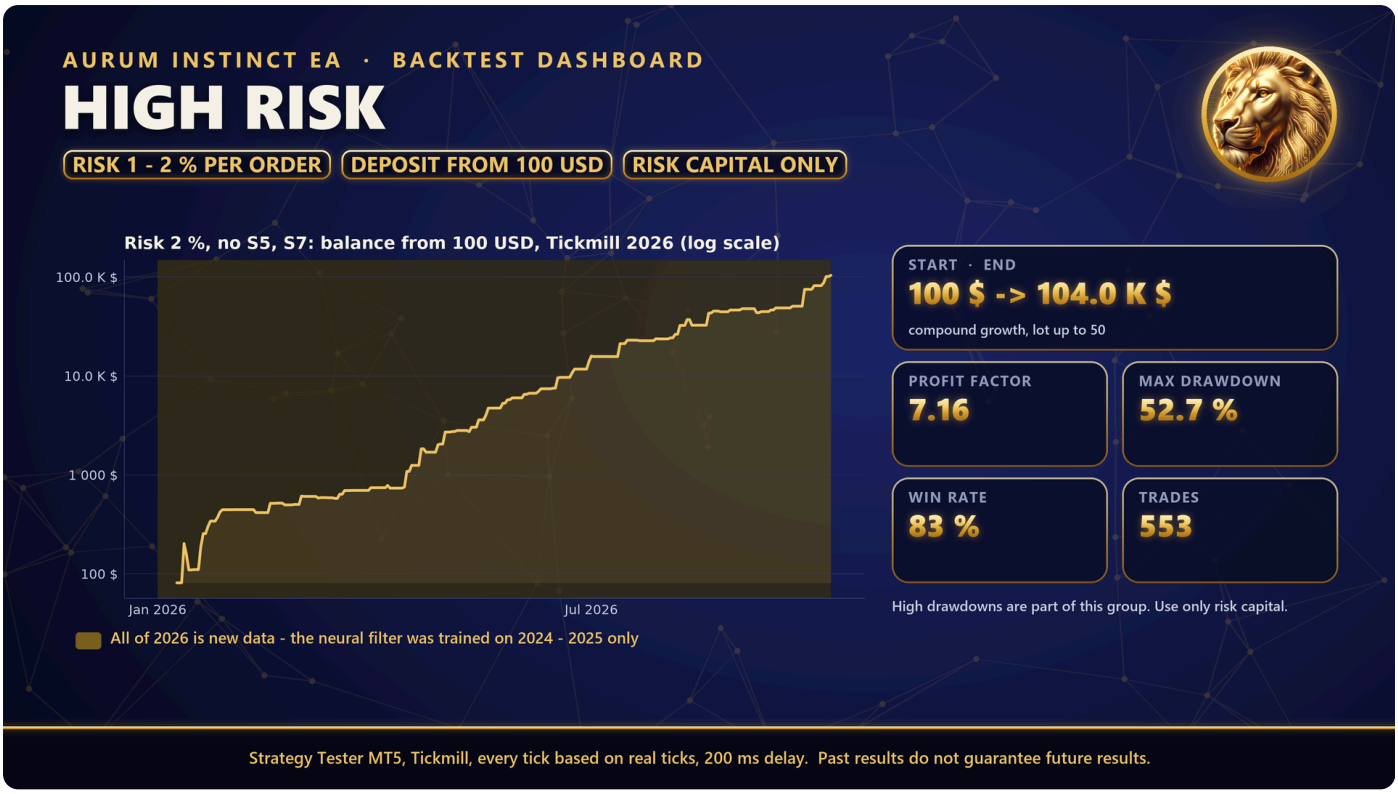
Trend grid preset, fixed lot 0.01: Tickmill 2024-2026, model «Every tick», shown from a 500 USD deposit.



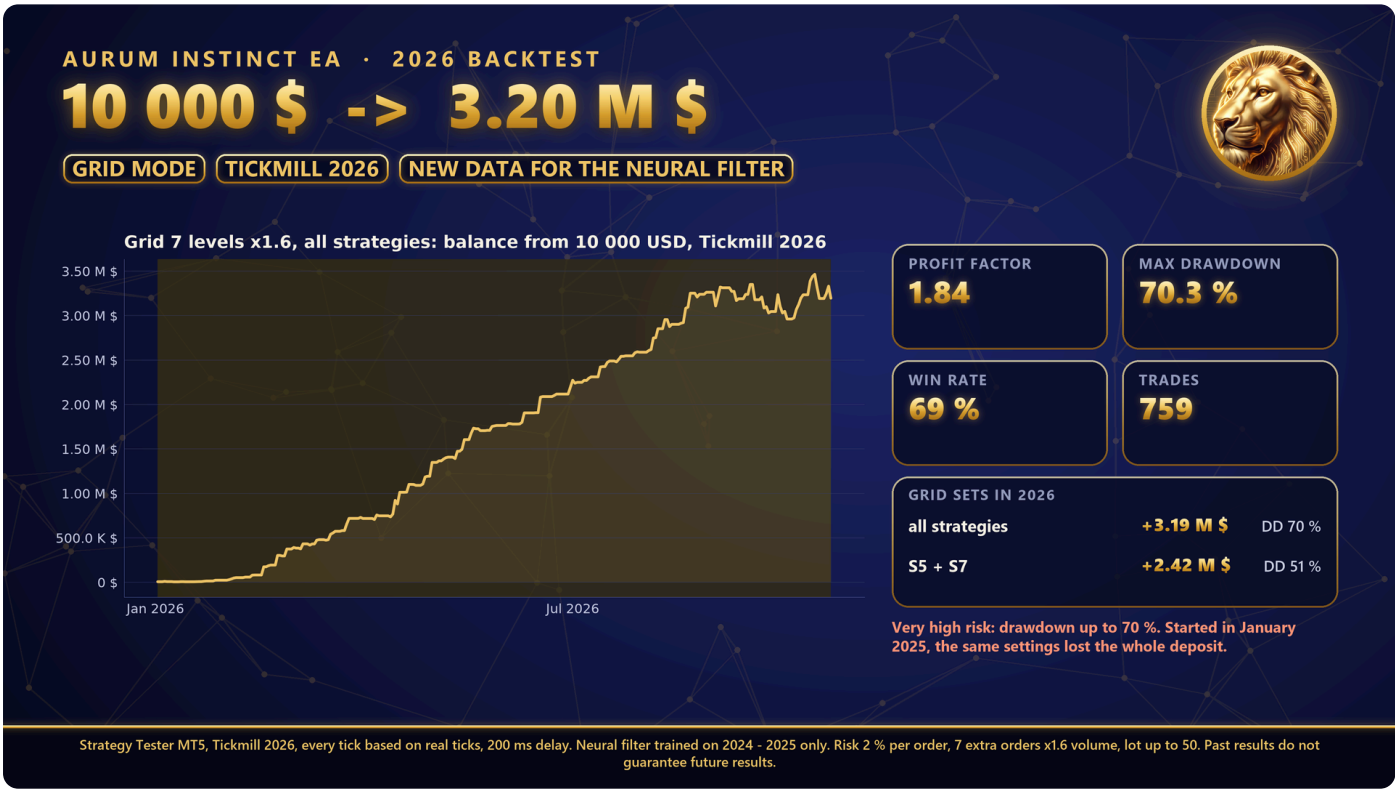
Low risk: Trend grid on RoboForex 2024-2026, real ticks, from 10 000 USD.



Mid risk: trading by risk 0.25 % per order (the shipped preset uses 1 %).



High risk: preset «Low risk» tested with 2 % per order from 100 USD (shipped with 1 %).



Grid presets: very high risk, tested with 2 % per order (shipped with 1 %).

8. Strategy Tester

- MetaTrader 5: model **«Every tick based on real ticks»**, delay 200 ms, deposit 10 000 USD, leverage 1:500, period H1.
- MetaTrader 4: model **«Every tick»** with M1 history of the whole period (History Center, F2). The MT4 tester builds ticks from M1 bars and is more optimistic for gold: in our comparison 99 % of the entries were the same

as in MT5, but fewer orders were stopped out within the first minute, so the profit was higher.

- In the tester the learning state is not saved between runs unless InpLearnFile is set.

9. Questions

- **No orders.** Check Algo Trading / AutoTrading, the symbol (on other symbols only S10, S11 trade), the weekend break, the NFP pause, the spread filters InpMaxSpread and InpLegMaxSpread, a netting account. Orders appear only when a level is far enough from the price.
- **Changing inputs with open positions.** The EA manages its positions and orders by Magic - keep InpMagicBase the same.
- **Reset the learning.** Start once with InpLearnReset = true, then set it back to false.
- **Another symbol.** S1-S9 are designed for gold; on other symbols only S10 and S11 trade.
- **The panel.** Balance, equity, daily result, drawdown, signals, the state of the filter and learning, Peak Trail of open positions and a table of all strategies. Switch it off with InpPanel = false.

10. Risk warning

> Trading gold with leverage carries a high risk of losing money. Backtests are made on historical data and do not guarantee future results; the results of different brokers, accounts and models differ. The risk presets compound: with a growing balance the lot and the money drawdown grow too. Trade only with money you can afford to lose and start with a demo account.