

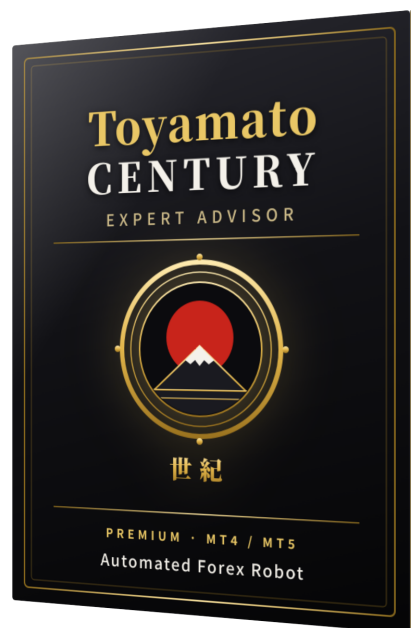


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Toyamoto Century EA

Mean-reversion forex robot with built-in Account Guardian

User manual · Expert Advisor · MetaTrader 4 / MetaTrader 5
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Not a holy grail. No robot, indicator or strategy wins all the time. Toyamato Century EA is a tool: it can have losing trades, losing weeks and losing months. Results depend on the market, your broker, your settings and your risk. Always test with the free demo first and never trade with money you cannot afford to lose.

1. What Toyamato Century EA does

Toyamato Century EA is a fully automated Expert Advisor for MetaTrader 4 and MetaTrader 5. It trades a **mean-reversion** strategy: it waits until the price has moved unusually far away from its average, opens one trade against that stretch, and closes it when the price returns to the average.

It holds **at most one position per chart**. It never adds trades, never increases the lot after a loss (no martingale), never builds a grid and never hedges. Every trade has a stop loss on the broker's server from the first second.

The complete protection logic of the free **Toyamato Account Guardian** is built in: it watches the whole account and closes the open positions when the equity drawdown or the floating loss reaches your limit. The panel and all messages are available in 14 languages: English, German, French, Spanish, Italian, Dutch, Polish, Czech, Slovak, Hungarian, Romanian, Croatian, Slovenian and Indonesian.

2. Installation (MT4 / MT5)

Step-by-step guide with pictures

Installation, WebRequest, loading .set files, Strategy Tester, Magic Numbers, VPS and troubleshooting, for MT4 and MT5: **toyamatoforexworld.com/guide**

▲ Important - follow this order

- 1 *Tools > Options > Expert Advisors*: tick *Allow WebRequest for listed URL* and add **both** addresses:
<https://api.gumroad.com> (license check)
<https://nfs.faireconomy.media> (news calendar)
- 2 **Restart MetaTrader** (close it completely and open it again). The license check works only after this restart.
- 3 Only then attach the robot to a chart and paste your license key.
- 4 If the panel shows *No connection to license server*: **restart MetaTrader once more**.

- 1 In MetaTrader click *File > Open Data Folder*.
- 2 Copy the robot into MQL4\Experts (MetaTrader 4, file .ex4) or MQL5\Experts (MetaTrader 5, file .ex5). A .set file from the Backtests page goes into MQL4\Presets or MQL5\Presets.
- 3 Allow the two WebRequest addresses (see the box above) and tick *Allow automated trading* (MT5: *Allow algorithmic trading*).
- 4 **Restart MetaTrader**.
- 5 Open an **AUDCAD M30** chart and drag **Toyamoto Century EA** from the Navigator onto it.
- 6 *Common* tab: tick *Allow live trading* (MT5: *Allow Algo Trading*). *Inputs* tab: on AUDCAD M30 the default settings are ready; on another pair **Load** its .set file from the Backtests page. Enter your **License_Key** (full version) and check the MagicNumber.
- 7 Click OK and switch on *AutoTrading* (MT4) or *Algo Trading* (MT5) in the toolbar.

MetaTrader must stay running for the robot to work, so a VPS is recommended for continuous use. On MetaTrader 5 the robot works on hedging and on netting accounts.

3. How the license works and activation

How the license works - please read

- 1 **Before you pay**, you type your **2 MetaTrader account numbers** (live or demo, you decide) on the Gumroad checkout page.
- 2 **After payment** you receive the files and **one license key** – on screen and by e-mail.
- 3 You **paste the license key** into the robot (input `License_Key`).
- 4 The robot checks the key online and runs **only on these 2 account numbers**.
- 5 It works on **any computer or VPS** – at home, on a laptop or on a VPS, even on several at once. Only the account number counts.
- 6 The computer needs internet, and <https://api.gumroad.com> must be allowed in MetaTrader (*Tools > Options > Expert Advisors > WebRequest*).
- 7 **The 2 account numbers cannot be changed later**. A different account is only possible with a **new purchase**.

The key is checked when the robot starts and then once a day. If the server cannot be reached, the robot keeps working for up to 3 days on the last successful check. The second line of the panel always shows the license state:

Panel text	Meaning
Licensed account: 12345678	Everything is fine – the robot trades.

Panel text	Meaning
Enter your License_Key in the settings	The key is empty. Paste it into the License_Key input.
NOT LICENSED for account ...	This account number was not entered at checkout.
Invalid license key	The key is wrong (typing or copy error).
License deactivated (refund)	The purchase was refunded.
No connection to license server	WebRequest is not allowed, there is no internet, or MetaTrader was not restarted.

When the license is not valid, or the demo has ended, the robot opens **no new trades**. An open trade is still managed and closed, and the Account Guardian keeps protecting the account.

4. First start and the panel

After the start the panel appears in the top left corner, with the Toyamato Century box next to it. Its parts:

Panel part	What you see
Title and license line	Product, version, LIVE or TEST, symbol; then the license or demo state (for example <i>DEMO version – 7 day(s) left</i>).
Account	Balance / equity, spread / maximum spread, system status (OK or the reason why no trade is opened now), remaining lock time.
Strategy	Distance of the price from the SMA100 in pips (gold when it is inside the entry zone), the entry zone, the SMA80 exit level, the ATR and its minimum.
Position	Direction, lot and entry price, open profit in money and pips, holding time, the lot of the next trade.
Risk & protection	The robot's own drawdown and limit, trailing stop and break-even state, the next filtered news.
Toyamato Account Guardian	Status, recorded equity peak, drawdown from the peak / limit, floating loss / limit, last trigger.
Close at break-even button	When switched on, the robot closes its position as soon as the profit reaches 0.

On the chart the robot draws the sell band (SMA100 + entry distance), the buy band (SMA100 – entry distance), the SMA80 exit line and the entry price of the open trade.

5. How the trading logic works

The robot makes its decisions once per candle, on the last **closed** M30 candle. This makes it stable: the same candle always gives the same decision.

Entry conditions

- 1 **Stretch:** the close is at least `EntryDistance_pips` and at most `MaxDistance_pips` away from the `SMA(MA_Period)`. Too far away means a runaway trend – no entry.
- 2 **Push:** the last candle closed in the direction of the stretch with a body of at least `MinBody_pips`.
- 3 **Volatility:** the ATR is at least `MinATR_pips`. Optional extra filters: efficiency ratio (`MaxER`) and ADX (`MaxADX`), both off by default.
- 4 **Direction:** above the average the robot sells, below it it buys – against the stretch.
- 5 **Filters:** spread, large candle shield, midnight candle, news, time, Friday, holiday, licence and pause after a loss must all allow the trade.

Exit

- **Back at the average:** the close crosses back over the `SMA(ExitMA_Period)` – default SMA80. This is the main exit.

- **Take profit:** on the broker's server, at the distance to the EMA(TP_EMA_Period), at least TP_Min_pips and at most TakeProfit_pips_buy/sell.
- **Stop loss:** fixed, on the broker's server (StopLoss_pips_buy/sell).
- Optional: maximum holding time, trailing stop, break-even, close at 0 profit.

A mean-reversion strategy loses when a pair starts a strong, long trend and does not return to its average. The stop loss limits each loss, but several losses in a row are possible.

6. The built-in Account Guardian

The Account Guardian never opens a trade. It runs every second (also without new ticks) and has two layers:

- **Layer 1 - maximum equity drawdown:** when the equity falls Max_Equity_DD_Percent (default 30%) below its recorded peak.
- **Layer 2 - floating loss stop:** when the floating loss reaches Percentage_Stop_Percent (default 20%) of the balance.

When a layer triggers, it closes **all** open positions of the account (every robot, every Magic Number, manual trades too) – or only the robot's own position when Close_All_Positions = false – deletes pending orders, retries every 5 seconds until everything is closed, and sends a push notification, a pop-up and a sound. Then it starts again from the new equity. After a withdrawal it resets the peak automatically; Reset_Peak_Now sets the peak to the current equity once.

With Guardian_Lockout_Hours you can block new Century entries for some hours after a trigger (0 = off).

One Guardian is enough. It watches the whole account. If you run Toyamato Century EA on several charts, leave Guardian_Active = true on one chart only. If you already use the separate free Toyamato Account Guardian, switch the built-in one off. Set the limits **lower** than the limits of your other robots, otherwise the Guardian never acts first.

7. Protection

Protection	What it does
Large candle shield	No entry when the signal candle is larger than Long_Candle_Pips (default 80), or – in tick mode – when the price jumps that far within 2 seconds.
Spread filter	No entry when the spread is higher than AllowMaxSpread points.
Midnight candle	No entry on the 00:00 candle, when the rollover spread is wide (SkipMidnightBar).
Pause after a loss	After a loss of at least CooldownLoss_pips no entry for CooldownHours hours (0 = off).
Own drawdown limit	Closes the robot's position at Max_DrawDown_Percent floating loss, with an optional lockout.
News filter	No new entry before and after important news (see chapter 9).
Time, Friday, holidays	Optional trading hours, no new trades or close on Friday, holiday break 15 December – 15 January.
Trailing stop	Optional (default OFF): follows the price after Trailing_Start_pips profit at Trailing_Distance_pips.
Break-even	Optional (default OFF): moves the stop to the entry + BE_Lock_pips after BE_Trigger_pips profit.
Close at 0 profit	Panel button or Menu_BE_Exit: closes the position as soon as its profit reaches 0.
Connection monitor	No new trade without connection or trading permission.

Protection	What it does
ECN mode	Opens without stop loss / take profit and sets them right after (for brokers that require it).

Trailing stop and break-even are **off** by default, so the robot trades exactly like in the author's tests. Switching them on changes the results – test first.

8. Magic Number and several charts

One unique Magic Number per chart. Every copy of the robot needs its own Magic Number that no other EA in the same MetaTrader uses. If two EAs share a Magic Number, they manage each other's trades. The .set files on the Backtests page already use different numbers – still check after loading one.

Several charts = more risk. Each chart trades independently, so several positions can be open at the same time. Use smaller lots and keep one Account Guardian switched on.

9. News filter

The robot downloads the weekly economic calendar (the same events as on the ForexFactory calendar) and uses only the news of the two currencies of your chart. Before and after a filtered event (Hours_Before_News / Hours_After_News, 2 hours by default) it opens **no new trades**; an open trade is still managed. You choose the impact levels (high, medium, low); the news lines and pause zones are drawn on the chart.

Allow <https://nfs.faireconomy.media> in the WebRequest list. The news filter is not active in the Strategy Tester (MetaTrader limitation).

10. Recommended pairs, timeframe and deposit

The strategy needs pairs that tend to return to their average. The author tested six pairs on M30 from 2008 to 2026. The robot's **default settings are made for AUDCAD M30**. The .set files for the other pairs – and the author's test reports – can be downloaded from the Backtests page: toyamatoforexworld.com/backtests

Pair (M30)	Settings	Author's view
AUDCAD	Default settings of the robot	Main pair – the strategy was built for it
NZDCAD	.set file from the Backtests page	Recommended as a second chart
AUDNZD	.set file from the Backtests page	Recommended as a second chart
CADCHF, EURGBP, AUDCHF	.set file from the Backtests page	Not recommended – weak results in the author's long-term tests

Lot size. With AutoMM = true the robot trades 0.01 lot for every USD_per_001_Lot (default 200) of balance: 200 USD = 0.01, 1 000 USD = 0.05, 2 000 USD = 0.10 (always rounded down, at least the broker's minimum lot, at most MaxLot). With AutoMM = false it always uses FixedLot.

Minimum deposit: 200 USD per chart for 0.01 lot with 1:500 leverage where available – with 1:30 or 1:20 leverage you need much more. A higher deposit gives more room for drawdown.

Based on the author's own testing. Not a guarantee of results. A pair that worked in the past can stop working.

11. All settings

The settings are grouped in chapters in the *Inputs* tab. License_Key exists only in the full version.

Setting	Default	Description
0. CHAPTER: LANGUAGE		
UI_Language	English	Language of the panel, messages and chart labels
License_Key	(empty)	License key from Gumroad (full version)
1. CHAPTER: BASIC SETTINGS		
MagicNumber	90558	Unique ID (Magic Number)
Order_Comment	Toyamoto Century	Order comment
2. CHAPTER: LOT SIZING		
AutoMM	true	false = always FixedLot true = lot grows with balance
FixedLot	0.01	Lot used when AutoMM = false
USD_per_001_Lot	200	AutoMM: every this much balance = 0.01 lot (200 -> 1000 USD = 0.05)
MaxLot	5.0	AutoMM: maximum lot
3. CHAPTER: STRATEGY		
MA_Period	100	Entry: distance measured from this SMA
ExitMA_Period	80	Exit: close when price crosses back over this SMA
EntryDistance_pips	35	Minimum distance from the entry SMA (pips)
MaxDistance_pips	92	Maximum distance (too far = runaway trend, no entry)
MinBody_pips	8	Signal candle body at least (pips), in the stretch direction
ATR_Period	14	ATR period
MinATR_pips	9.9	Minimum ATR (pips) - volatility filter
ER_Period	96	Efficiency ratio lookback (bars)
MaxER	1.0	Max efficiency ratio 0..1 (1.0 = off)
ADX_Period	14	ADX period
MaxADX	999	Max ADX (999 = off)
TP_EMA_Period	20	Take profit target = this EMA
TP_Min_pips	10	Minimum take profit (pips)
ExitDistance_pips	0	Close when within this many pips of the exit SMA (0 = on cross)
MaxHoldHours	0	Maximum holding time in hours (0 = off)
SkipMidnightBar	true	No entry on the 00:00 bar (rollover spread)
Position	Buy and sell	Allowed direction
4. CHAPTER: TAKE PROFIT & STOP LOSS		
TakeProfit_pips_buy	60	Buy: take profit cap (pips)
StopLoss_pips_buy	180	Buy: stop loss (pips)
TakeProfit_pips_sell	60	Sell: take profit cap (pips)
StopLoss_pips_sell	180	Sell: stop loss (pips)
5. CHAPTER: PAUSE AFTER A LOSS		
CooldownHours	0	Pause length in hours after a big loss (0 = off)
CooldownLoss_pips	60	Loss size that triggers the pause (pips)
6. CHAPTER: TRAILING STOP		
Use_Trailing	false	Trailing stop on/off (OFF = original strategy)
Trailing_Start_pips	20	Start trailing after this profit (pips)
Trailing_Distance_pips	15	Trailing distance behind price (pips)

Setting	Default	Description
Trailing_Step_pips	1	Modify only if the stop moves at least this much (pips)
7. CHAPTER: BREAK-EVEN		
Use_BreakEven	false	Move stop loss to entry (OFF = original strategy)
BE_Trigger_pips	20	Move the stop after this profit (pips)
BE_Lock_pips	2	Locked profit above / below entry (pips)
Menu_BE_Exit	false	Close the position at 0 USD - can also be switched with the panel button
8. CHAPTER: LARGE CANDLE SHIELD		
Long_Candle_Shield	true	Large candle shield on/off (blocks new entries after a spike)
Long_Candle_Mode	Candle size	Shield mode
Long_Candle_Pips	80.0	Candle size / spike limit in pips
9. CHAPTER: RISK & SPREAD		
AllowMaxSpread	12	Maximum spread in POINTS (12 = 1.2 pips)
Slippage	3	Allowed slippage in points
Max_DrawDown_Percent	30.0	Robot's own floating drawdown in %; when reached, the position is closed
Drawdown_Lockout_Hours	24.0	Lockout after a drawdown stop in hours (0 = no lockout)
10. CHAPTER: EXECUTION SAFETY		
Use_ECN_Mode	false	ECN mode: open without SL/TP, then modify separately
Connection_Monitor	true	Connection and trade permission monitor
11. CHAPTER: ECONOMIC NEWS SHIELD		
News_Filter_Active	true	News filter (the WebRequest URL must be allowed!)
High_Impact_Filter	true	Filter high impact news
Medium_Impact_Filter	false	Filter medium impact news
Low_Impact_Filter	false	Filter low impact news
Hours_Before_News	2.0	Pause before the news (hours)
Hours_After_News	2.0	Pause after the news (hours)
Auto_GMT	true	Automatic GMT offset (based on TimeGMT)
Manual_GMT_Offset	2	Manual GMT offset (if Auto_GMT = false)
News_Calendar_URL	ForexFactory JSON	Calendar JSON source
News_Refresh_Minutes	60	Calendar refresh in minutes (not below 30)
Show_News_Zones	true	Show the lockout zones on the chart
News_Color_High	red	High impact news line colour
News_Color_Medium	orange	Medium impact news line colour
News_Color_Low	yellow	Low impact news line colour
News_Zone_Color	dark red	Lockout zone colour
12. CHAPTER: TRADING TIME, FRIDAY & HOLIDAYS		
Time_Filter_Active	false	Trading time window (broker time)
Start_Hour	2	Start hour
Start_Minute	0	Start minute
Stop_Hour	19	End hour
Stop_Minute	0	End minute
Friday_No_New_Trades	false	No new trades on Friday (open position stays)

Setting	Default	Description
Friday_Stop_Hour	22	Friday no-new-trades start (hour)
Friday_Stop_Minute	0	Friday no-new-trades start (minute)
Friday_Close_All	false	Friday close: close the position before the weekend
Friday_Close_Hour	22	Friday close time (hour)
Friday_Close_Minute	30	Friday close time (minute)
Holiday_Filter_Active	false	Trading pause Dec 15 - Jan 15
13. CHAPTER: PANEL & CHART		
Show_Panel	true	Graphical panel
Show_Logo	true	Show Toyamoto logo next to the panel
Show_Strategy_Lines	true	Show entry bands and exit MA on the chart
Color_Label	light steel blue	Panel section title colour
14. CHAPTER: TOYAMATO ACCOUNT GUARDIAN		
Guardian_Active	true	Account Guardian on/off (protects the whole account)
Max_Equity_DD_Active	true	Layer 1 on / off
Max_Equity_DD_Percent	30.0	Max fall from the equity peak in % - above it everything is closed
Percentage_Stop_Active	true	Layer 2 on / off
Percentage_Stop_Percent	20.0	Max floating loss compared with the balance in %
Close_All_Positions	true	true = close ALL positions of the account false = only this EA's position
Delete_All_Pending	true	Also delete all pending orders
Close_Slippage	30	Allowed slippage in points when closing
Auto_Reset_On-Withdrawal	true	Reset the peak automatically after a withdrawal
Reset_Peak_Now	false	Set to true once: peak = current equity (acts once)
Guardian_Lockout_Hours	0	No new Century entries for this long after a trigger (0 = off)
Send_Push_Notification	true	Push notification to the MetaTrader mobile app
Send_Alert_Popup	true	Pop-up window in the terminal
Play_Sound_Alert	true	Sound when triggered

12. Demo, refund and support

- **Free 10-day demo.** The demo is the complete robot. It runs for 10 days on any live or demo account, counted from its first start on that account, and without a time limit in the Strategy Tester. When it ends, the panel shows *DEMO EXPIRED* and the robot opens no new trades.
- **7-day refund** if the software does not work technically on your MetaTrader (an installation or activation problem that we cannot solve together, or the wrong platform purchased). Trading results and losses are not a reason for a refund. When a refund is issued, the license key is deactivated.
- **Support:** toyamatoforexworld@gmail.com – please send your platform (MT4 / MT5), the panel text and a screenshot of the *Experts* tab.

13. Tips for safe use

- Start on a **demo account** and watch the robot for several weeks before you use real money.

- Use the default settings (AUDCAD M30) or the author's .set files from the Backtests page, and change as little as possible. Every change makes the robot different from the author's tests.
- Keep the Account Guardian switched on (on one chart).
- Use money you can afford to lose, and a lot size that lets you survive several stop losses in a row.
- Run MetaTrader on a VPS, and check the panel and the *Experts* tab regularly.
- Give every chart its own Magic Number.

14. Risk warning

Trading foreign exchange (forex) and CFDs on margin carries a high level of risk and may not be suitable for everyone. Leverage can work against you as well as for you, and you may lose some or all of your capital. Never trade with money you cannot afford to lose.

Toyamoto Century EA is a software tool, not a holy grail. There is no guarantee of profit, of any trading result, of loss prevention or of error-free operation. Stop losses and the Account Guardian reduce risk but cannot remove it; they may be executed at a worse price during gaps, high volatility, news or weekends, and they work only while MetaTrader is running and connected. Backtests and demo results do not guarantee future results. Nothing in this manual is financial, investment or tax advice; you are solely responsible for your trading decisions.

Full risk warning and the End User License Agreement (EULA):

toyamatoforexworld.com/risk-warning and toyamatoforexworld.com/eula.