

McDuckEA – Forex Expert Advisor

McDuckEA(v.7.0) for MT4 and McDuckEA MT5 (v.3.0) July, 2023

McDuckEA (McDuck) is an aggressive martingale EA, does not use indicators.

Martingale orders are opened step by step from each other and only after the opening of a new bar of the selected timeframe. There is no martingale multiplier in the settings! Instead, you can choose the order of lots depending on your goals and needs. "Martingale" lots - high risk, "Economy" lots - moderate risk, "Equal size" lots - low risk.

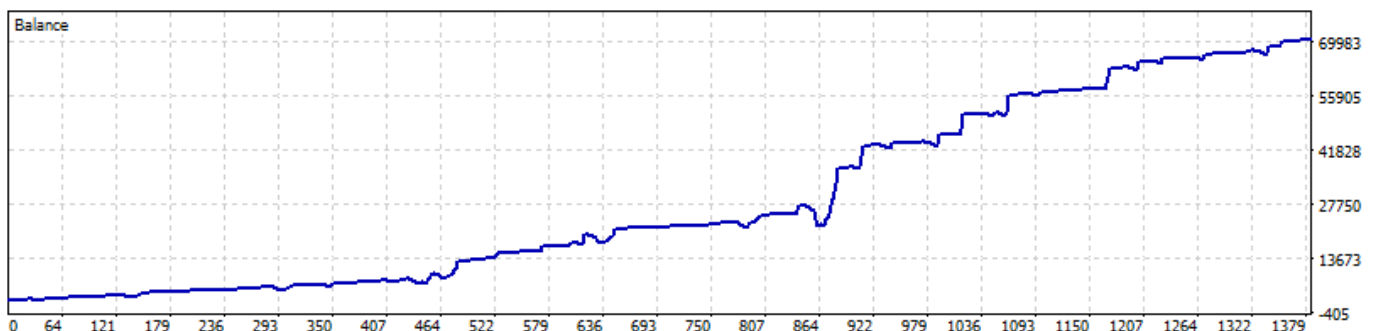
The EA has an internal risk control system and, if the risk is exceeded, it starts to exit the market, pairwise closing of extreme positions. Profitable single positions are automatically protected by built-in breakeven and trailing stop. There are settings for working by time and days of the week.

Importantly! The EA works without indicators and does not follow up the trend! Therefore, the work of the adviser must be monitored and regularly optimized at least once a month! Or, in the settings, you can set the direction of trading only to Buy or only to Sell, taking into account the direction of the current trend in the market.

Benefits

- risk management by percentage of the deposit load;
- pairwise closing of extreme positions if the risk is exceeded;
- automatic magic number, individual for each currency pair;
- limit on the number of open positions in one direction;
- restriction on the total volume of all lots in one direction;
- built-in trailing stop and breakeven have no settings, they work automatically;
- closing orders by drawdown percentage;
- work break by day of the week;
- work by time, by hours and minutes;
- managing orders using "hot" buttons;
- works on accounts with quotes of 4 and 5 decimal places.

EURUSD testing period from 01.02.2023 to 04.30.2023.

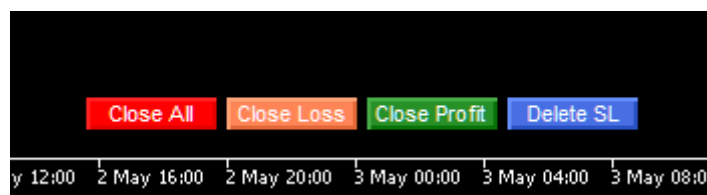


History Quality	100%				
Bars	8150	Ticks	471732	Symbols	1
Initial Deposit	3 000.00				
Total Net Profit	67 690.12	Balance Drawdown Absolute	0.00	Equity Drawdown Absolute	2 163.31
Gross Profit	92 156.01	Balance Drawdown Maximal	1 000.76 (2.27%)	Equity Drawdown Maximal	23 239.70 (81.35%)
Gross Loss	-24 465.89	Balance Drawdown Relative	5.67% (393.82)	Equity Drawdown Relative	90.57% (8 033.25)
Profit Factor	3.77	Expected Payoff	49.09	Margin Level	16.74%
Recovery Factor	2.91	Sharpe Ratio	2.05	Z-Score	-13.09 (99.74%)
AHPR	1.0024 (0.24%)	LR Correlation	0.96	OnTester result	0
GHPR	1.0023 (0.23%)	LR Standard Error	6 082.37		

Importantly! The EA works on accounts with quotes of 4 and 5 decimal places. All parameters are set to 4 decimal places by default! For accounts with 5-digit quotes, the parameters are automatically increased by 10!

Hot buttons

Hot buttons are designed for quick execution of one command.



Close All – closes absolutely all open orders on the current currency pair and removes all pending orders regardless of the magic number.

Close Loss – closes only orders with loss on the current currency pair.

Close Profit – closes only orders with profit on the current currency pair.

Delete SL – deleting of take profit and stop loss for all orders on the current currency pair.

GENERAL SETTINGS

Variable	Value
ab GENERAL SETTINGS	
Open new orders	false
First, initial lot	0.01
Size of the following lots: >	Martingale
Take Profit in points	10
Stop Loss in points	250
Position direction: >	Buy & Sell
Magic number (0 - automat)	0
Slippage	5

Open new orders = true, if you select false, then the EA will no longer open new orders, but all other functions of the EA will continue to work (trailing stop, breakeven, etc.).

First, initial lot = 0.01 - the size of the first lot.

Size of the following lots:

- **Martingale** - regular lots increased by 1.5 martingale coefficient;
- **Economy** - lots with a gradual and consistent increase in volume, they come in series of 3 pieces, one after another. For example: first 3 orders (1, 2, 3) at 0.01, next 3 orders (4, 5, 6) at 0.02, next 3 orders (7, 8, 9) at 0.03, next series 10, 11, 12 at 0.05, the next series 13, 14, 15 at 0.08 and after all subsequent lots from the 16th will have the same volume of 0.12.
- **Equal size** - lots with the same volume as the size of the first lot.

1/2	First, initial lot	0.01
123	Size of the following lots: >	Martingale
123	Take Profit in points	Martingale
123	Stop Loss in points	Economy
123	Position direction: >	Buy & Sell

Take Profit in points = 10.

Stop Loss in points = 250.

Position direction:

- **Buy only** - open and trawl only buy orders;
- **Sell only** - open and trail only sell orders;
- **Buy & Sell** - for orders of all directions.

123	Stop Loss in points	250
123	Position direction: >	Buy & Sell
123	Magic number (0 - automat)	Buy only
123	Slippage	Sell only
ab		Buy & Sell

Magic Number (0-automat) = 0 - allows you to specify to the EA which orders (with which magic number) it should track. If the magic number = 0, the EA will automatically select the original magic number (5-digit), which will differ depending on the currency pair on which it is installed. Instead of zero, you can set your magic number. If you put "-1" instead of 0, the EA will take into account and monitor all orders that are currently available on the chart, including orders opened manually.

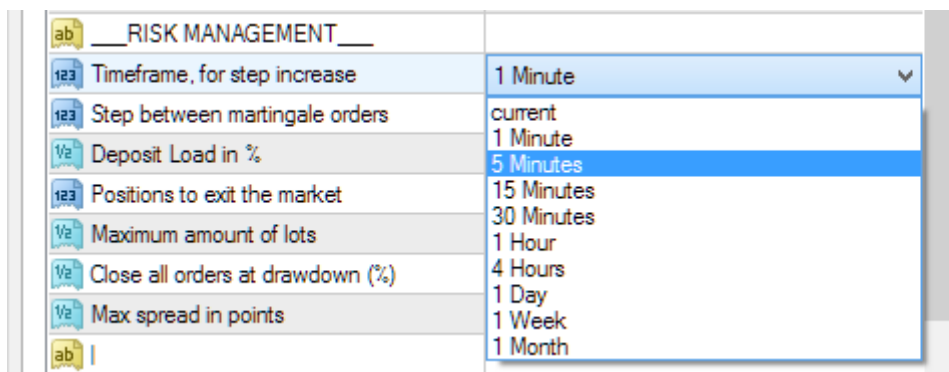
Importantly: if the magic number is "-1", then the EA will not open new orders, but all other functions of the adviser (martingale, trailing stop, breakeven, hot buttons, etc.) will continue their work as usual.

Slippage = 5 - the level of slippage in points on the volatile market it is better to increase.

RISK MANAGEMENT

ab	___ RISK MANAGEMENT ___	
123	Timeframe, for step increase	1 Minute
123	Step between martingale orders	4
1/2	Deposit Load in %	30.0
123	Positions to exit the market	0
1/2	Maximum amount of lots	0.0
1/2	Close all orders at drawdown (%)	100.0
1/2	Max spread in points	5.0

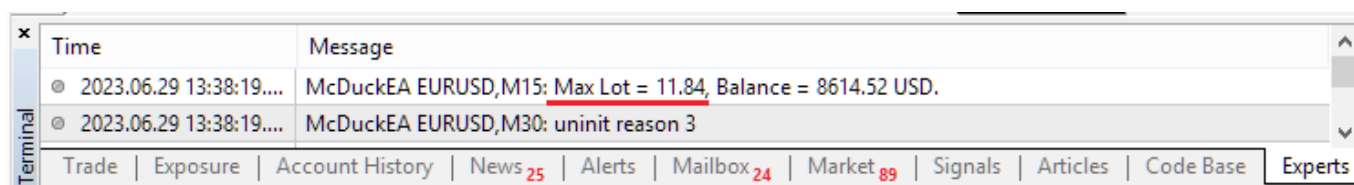
Timeframe, for step increase = «1 Minute», timeframe selection for opening martingale orders. Orders are opened only when a new bar of the selected timeframe is opened. By choosing a larger or smaller timeframe, you can thus increase or decrease the step size between orders. Use the mouse to select the timeframe you need from the drop-down menu. If you select "current", the EA will open orders on the bars of the current chart.



Step between martingale orders = 5 - step (distance) in points between martingale orders.

Deposit Load in % = 30.0 – is calculated by the formula: $\text{Margin} / \text{Equity} * 100$. Based on this indicator, the EA will calculate the size of the maximum volume of all lots in one direction. And if in total, the lot of the next order scheduled to be opened, plus the current volume of lots of all open positions, is greater than or equal to the calculated maximum volume, then the EA will start the procedure for exiting the market, closing the extreme positions in pairs.

After any initialization of the EA (for example: switching to another timeframe), in the "Experts" tab you can see what is the maximum total volume set by the EA!



Importantly! Pairwise closing of the most extreme positions is not always possible! To successfully close, one position must be larger in volume and have a profit that would cover the losses of the second extreme position. The volume of the second position should be significantly less than the volume of the first one.

Importantly! If the maximum lot volume calculated by the EA does not suit you, you can set your own maximum lot size in the "Maximum amount of lots" parameter. If there is 0, then the EA will automatically calculate the required volume, but if you set your own numbers for the maximum total volume there, the EA will take them as a basis and will take into account only them.

Positions to exit the market = 0.0 – if a given number of positions are already open in the market, the adviser will start exiting the market with a minimum profit. The EA monitors the risk itself and can exit the market automatically. This function is just an additional insurance for those who have a small deposit or when you want to limit your risk and exit the market urgently. You can change this indicator directly during trading. If set to 0, then the adviser will not take into account this indicator. Keep in mind that limiting the number of positions can reduce the risk, but at the same time can significantly reduce the overall profit!

Maximum amount of lots = 0.0 – limit on the total volume of all lots, open orders, one direction. If 0, then the EA does not take into account this indicator. If the total volume of lots, plus the lot of the next martingale order, reaches or exceeds the set value, the EA will stop opening new orders.

Close all orders at drawdown (%) = 100.0 – if the drawdown reaches the set value, all orders will be closed and the EA will stop working. If you do not want to limit the work of the EA with this condition, set the value 100 here.

Max spread in points = 0.0 – if zero, then this parameter does not work! Brokers often widen the spread before the release of important news or before the weekend. Therefore, you can set your limits on the maximum spread. Usually it is set above 1.5-2.0 times the average spread. If the spread is higher than the

maximum, the adviser will not open new orders!

Importantly! All parameters of the EA are set for accounts with a 4-digit quote. For accounts of other quotes, the EA itself will automatically increase the spread values to the required values.

TRADE BY TIME

ab	TRADE BY TIME	
✓	Set working hours	true
ab	Start of operation time	04:00
ab	End of operation time	20:00
123	Don't work on: >	Friday

You can set a period of time, during which the EA operates. After the set time has passed, the EA will stop trading and will not open new orders. At the start of the new period of time (usually it is the next day) the EA will start its operation again.

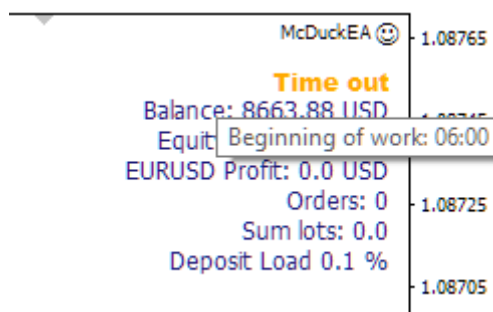
Set working hours = false - enable trade by time. By the clock of the MT!

Start of operation time = 04:00 - time, when the EA starts to operate, set in hours and minutes.

End of operation time = 20:00 - the time, when the EA stops its operation, set in hours and minutes.

There must be a colon ":" between hours and minutes.

In order to find out when the break ends and the adviser starts working again, move the mouse cursor over the inscription "Time out" and you will see the start time in the tooltip.



Don't work on: – don't work that day, the EA will no longer open new orders, but all other functions of the EA will continue to work (trailing stop, breakeven, etc.).

ab	End of operation time	20:00
123	Don't work on: >	Friday
ab	I	Disabled
ab	OTHER SETTINGS	Monday
123	Background: >	Tuesday
✓	Show info panel	Wednesday
123	Font size in messages: >	Thursday
		Friday
		9

Load

OTHER SETTINGS

ab __OTHER SETTINGS__	
123 Background: >	Auto
Show info panel	true
123 Font size in messages: >	9
Show hot buttons	true
Deleting objects from the graph	false
123 Delete objects, in in hours	24

Load

Save

Background: = Auto – the EA automatically changes its colors if the background of the chart is white or black. If the background color is different, choose the style that suits you Dark or Light.

ab __OTHER SETTINGS__	
123 Background: >	Auto
Show info panel	Auto
123 Font size in messages: >	Light
Show hot buttons	Dark
	true

Show info panel = true - displays textual information about the financial status of the account and currently active commands on the chart, if false, it does not show messages.

Font size in messages:

Show info panel	true
123 Font size in messages: >	9
Show hot buttons	8
Deleting objects from the graph	9
123 Delete objects, in in hours	10
	11

Load

Save

Show hot buttons = true - yes, show, false - no, do not show, "hot buttons" in the strategy tester do not work!

Deleting objects from the graph = true – allow clearing the chart from unnecessary graphical objects (arrows, modifications of stop loss levels, take profit, etc.).

Delete objects in hours = 24 - clears the chart from unnecessary graphical objects (arrows, modified stop-loss and take-profit levels, etc.) in a certain period of time set in hours passed from the moment, when an object is created.

Why you need to optimize an EA

Reason 1

Your broker's trading conditions may differ from those of our broker. It can be a different spread level, a different stop level or stop out level, a different leverage, a different contract size. Or you want to trade on another currency pair!

Reason 2

The market is constantly in motion and it may happen that when we optimized the adviser, the downward trend prevailed on the market, and at the time of your trading, the trend has already changed to an upward one! Naturally, if you do not change the settings of the adviser and do not optimize it for new conditions,

it will be very difficult for him to work, and as a result, this may lead to the loss of the deposit!

Reason 3

Each of us has different desires and different possibilities! Someone has a deposit of \$10,000, and someone has \$100! Someone is ready to risk big for the sake of maximum profit, and someone agrees to the minimum profit if only the risk is minimal. Therefore, when optimizing, you can choose the parameters that are right for you!

Advice:

- Optimize the EA on historical data (last 1 months) of your broker.
- Preliminary testing can be carried out by "Control points" or by 1 minute OHLC, and then check the result in the "Every tick" mode.
- First of all, it is necessary to optimize all parameters in the **Indicators** block. If you are a novice trader or for the first time trading using the martingale strategy, then do not change other parameters, leave them as they are!
- We recommend using MT5 for optimization and testing! The accuracy in it is higher than in MT4 for which the limit of testing reliability does not exceed 90%! Missing 10%? For a martingale, this is a lot! Such inaccuracy in testing can lead to the selection of incorrect parameters and, as a result, to the loss of the deposit.
- **For MT4.** If your broker uses a floating spread, set the average, fixed spread value in the tester! The fact is that the spread on a demo account can be very different from the spread on a real account! In addition, some brokers increase the spread by 3 times before the close of trading on Friday. And if you optimize the EA on weekends, leaving the default spread as "Current", you will get the result as with a triple spread!

Period: M15 Symbol properties

Spread: 25 Open chart

Optimization ☐ Modify expert

Deposit for martingale

What is the minimum deposit required to work on martingale? It is difficult to clearly answer this question, the amount of the required deposit depends on many factors, they can be divided into two large groups.

1. Trading conditions of your broker:

- your trading account type (standard or cent);
- the contract size of the base currency (100 000 or 10 000);
- the cost of the point in the size of 0.01 lot (0.1\$ or 0.01\$);
- the leverage is at least 1:500, but there are 1:1000 and 1:2000;
- the Stop Out level, when a broker forcibly closes your positions, one broker may have this indicator at 10%, and another at 40%;
- fixed or floating spread, with a fixed spread, optimization and order opening will be more accurate.

2. Your settings and your attitude to risk

For example, let's take one of the parameters, of the allowed number of open orders. Let's say you already have 7 positions open.

Your **broker A** (for example [RoboForex](#)) has contract size 100 000 base currency and the cost of the

point with lot 0.01 = 0.10 \$.

What is 7 positions with a martingale multiplier = 2.0, it is $0.01 + 0.02 + 0.04 + 0.08 + 0.16 + 0.32 + 0.64$ and in total it is already 1.27 lots! And the next order should be opened with a volume of 1.28! And then your total volume will be $1.27 + 1.28 = 2.55$ lots.

If leverage of 1:500 on EURUSD for this lot size 2.55 a margin will amount \$552.86 (02.04.2023)!

If the movement continues in the opposite direction from your open positions, then just one point of such a movement will increase your drawdown by another \$25!

What is the minimum deposit required for such a situation? At least three times more \$1600-2000.

If the number of allowed orders is greater, the deposit must be increased accordingly.

Let's see how it will be at another **broker B** (for example [InstaForex](https://www.instaforex.com/)) whose contract size 10 000 of the base currency and the value of the point is 0.01 \$.

On EURUSD with a leverage of 1:500 and lot 2.55, a margin will amount \$55.28 (02.04.2023)! That is, the minimum deposit from this broker and with these settings can be only 150-200 \$.

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