

# McDuckEA – Forex Expert Advisor

McDuckEA(v.6.0) for MT4 and McDuckEA MT5 (v.2.0) for MT5 (v.6)

May, 2023

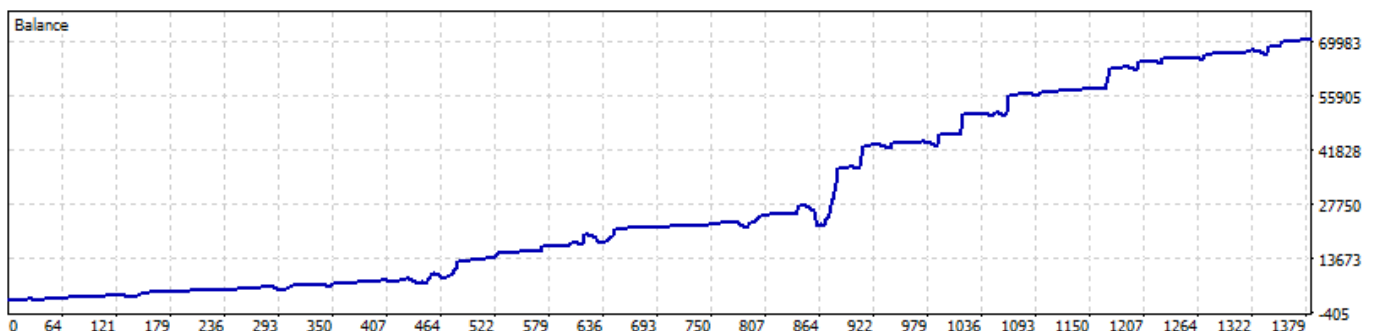
**McDuckEA** (McDuck) is an aggressive martingale EA. Does not use indicators. Martingale orders are opened strictly at a distance of a set step from each other. It has an internal risk control system and, if the risk is exceeded, it starts to exit the market by closing extreme orders in pairs. Profitable positions are automatically protected by a built-in breakeven or accompanied by a built-in trailing stop..

**Importantly!** The EA works without indicators and does not follow the trend change! So it should be regularly optimized at least once a month! Or you can set one trade direction only on Buy or only on Sell, according to the current trend direction.

## Benefits

- risk management using the "Risk" and "Depo Load" parameters;
- optimization by only three parameters: take profit, step between orders and risk;
- automatic magic number, individual for each currency pair;
- stop trading if the deposit loading value is reached;
- closing orders by drawdown percentage;
- built-in trailing stop and breakeven have no settings, they work automatically;
- an additional risk management tool, exit the market if the number of positions has reached the established limit;
- limit on the total volume of lots of all open orders in one direction;
- stop trading for a time by days of the week or 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

ab	___GENERAL SETTINGS___	
	Open new orders	true
1/2	Initial lot in the series	0.01
123	Take Profit in points	10
123	Stop Loss in points	250
123	Position direction: >	Buy & Sell
123	Magic number (0 - automat)	0
123	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.).

**Initial lot in the series** = 0.01 - the size of the first lot.

**Take Profit in points** = 10.

**Stop Loss in points** = 250.

**Position direction:**

- **Buy only** - open and trail 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	
1/2 Martingale multiplier	1.5
123 Step between martingale orders	4
1/2 Risk in %	30.0
1/2 Max spread in points	5.0
1/2 Deposit Load in %	70.0
123 Open positions -> exit the market	20
1/2 Maximum amount of lots	0.0
1/2 Close all orders at drawdown (%)	100.0

**Martingale multiplier** = 1.5 - martingale coefficient, the increase in the lot volume of the subsequent order by a given coefficient. If the multiplier = 1.0, then the EA will place orders only with a lot equal to the lot volume of the previous order.

**Step between martingale orders** = 4 - step (distance) in points between martingale orders.

**Risk in %** = 30.0 – this parameter controls the total volume of martingale orders. More risk, the EA will open more orders and with more volume, less risk, correspondingly will be open less orders and their scope will be limited. This also regulates the Advisor's exit from the market by sequential closing of extreme positions such as 0.61 lots and 0.01 lots. Loss 0.01 lot is offset by profit from 0.61 lots.

**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.

**Deposit Load in %** = 70.0 – the parameter determines the allowable load on the account is calculated by the formula  $\text{Margin} / \text{Equity} * 100$ . If the deposit load reaches the set value, the adviser will stop opening new orders.

**Open positions -> exit the market** = 20.0 – 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 EA will not take into account this parameter. 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** = 10.0 – limit on the total volume of all lots, open orders, one direction. If = 0,

then the EA does not take into account this parameter. 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.

## STOP\_BREAK

ab	__STOP_BREAK__	
123	Don't work on: >	Disabled
	Break from work	false
ab	Start of the break	15:00
ab	End of the break	16:00

**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	__STOP_BREAK__	
123	Don't work on: >	Disabled
	Break from work	Disabled
ab	Start of the break	Monday
ab	End of the break	Tuesday
ab		Wednesday
ab		Thursday
ab		Friday
ab	__OTHER SETTINGS__	

**Break from work** = false.

**Start of the break** = 15:00 - by the clock of the MT.

**End of the break** = 16:00 - by the clock of the MT.

## 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

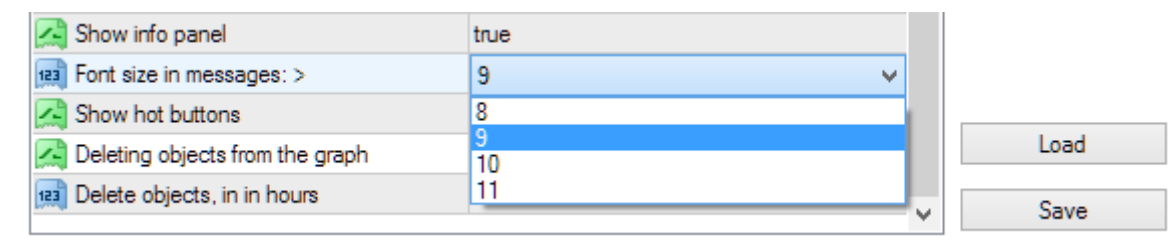
Save

**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
Font size in messages: >	9
Show hot buttons	8
Deleting objects from the graph	9
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

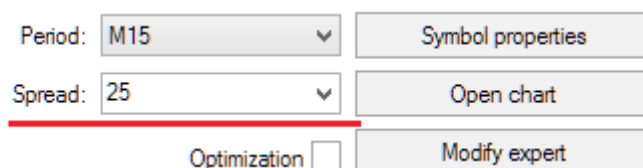
Each of us has different desires and different possibilities! Someone has a deposit of \$10,000, and someone has \$100! Someone is ready to risk big for the sake of maximum profit, and someone agrees to the minimum profit if only the risk is minimal. Therefore, when optimizing, you can choose the parameters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



## 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](#)) 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 \$.