

Advisor "Ilan Dynamic Premium"

Advisor for MetaTrader 4

This EA was created on the basis of the *Ilan 1.6 Dynamic* Expert Advisor with full preservation of the idea and all input parameters. Advisor "*Ilan 1.6 Dynamic*" - the progenitor of all Ilans and the most recognizable forex adviser according to the Martingale method. Number of titles assigned to this development, not countable. In fact, the EA uses the simplest trading strategy based on two standard technical indicators - RSI (*Relative Strength Index*) and CCI (*Commodity Channel Index*). The first is used to select the direction when opening positions, the second - for the function of limiting losses. Feature of this advisor consists in using a dynamically variable range, depending on the volatility market.

The basic algorithm is completely redesigned, the virtualization function is added - the series begins with the opening of virtual positions and after reaching the specified step real trading begins.

Principle of operation

Conditions for opening positions

- Sell if the closing price two bars ago was higher than the closing price at the previous the bar and RSI above the value of the parameter "RsiMinimum" (oversold zone).
- We buy if the closing price two bars ago was lower than the closing price at the previous the bar and RSI below the value of the parameter "RsiMaximum" (overbought zone).

In the event that the price went not in our direction, the adviser opens additional position (topping) and awaits the onset of correction. Increase in the volume of subsequent positions allows you to maximize bring the breakeven (average price of all positions) to the current price, as a result, even a small correction is able to close all unprofitable profit a series of positions. This scheme, with proper optimization of input parameters, practically does not has flaws.

Input parameters

main parameters

- **Virtualization** - the series begins with the opening of virtual positions and after reaching of a given step (serial number of a position in a series), real trading begins.

The main innovation in the adviser is "Ilan Dynamic Premium".

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The virtualization feature will help reduce risks in situations of too frequent protracted series. It is necessary to indicate the step with which real trading should begin. If set to 1, then the virtualization function will be disabled.

- **LotExponent** - lot increase ratio in a series (series ends when closing general profit position, after which a new one begins). Lot is calculated based on the size of the starting order - parameter "Lots". Each subsequent order in the series calculated based on the size of the previous order multiplied by the coefficient "LotExponent".

Example of a series with a coefficient of 1.5 and an initial lot of 0.1:

0.1, 0.15, 0.23, 0.34, 0.51, etc.

You need to be very careful with setting this parameter. At too high value of the coefficient, the general position will instantly gain a critical volume, and you will have no leverage for further monitoring the situation. In this case, even a small price movement in our direction is enough, and the bill will be merged.

- **DynamicPips** - the parameter enables the dynamic change of the distance between averaging positions. That is, if *true*, the EA decides when to open the next position (relying on the "DEL" parameter). If *false*, size this distance will always be equal to "DefaultPips".

In theory, this function should positively affect the adaptability of the adviser to trading conditions.

- **DefaultPips** - distance in points between averaging positions. Less than the parameter value will be set, the more often positions will be opened. *A higher parameter value allows you to experience long-term trends. A small value, in turn, allows you to get more profit from channel movements (flat).*

- **Range** - the number of bars for volatility analysis. Advisor calculates how much the price has passed for the indicated number of bars (the difference between the maximum and

minimum price value for the period), and divides the resulting value by the value the "DEL" parameter. This parameter is activated only when the parameter is turned on.

"DynamicPips".

The minimum distance value is limited by the "DefaultPips" parameter divided by to "DEL". The maximum is "DefaultPips" multiplied by "DEL".

- **DEL** - only works when the "DynamicPips" parameter is turned on. Responsible for change the originally specified step in "DefaultPips".
- **Slippage** - the maximum size of slippage when opening positions (in points).
- **Lots** - lot size of the starting order in the series. This is the main trading lot, an adviser to it returns every time a profitable series is closed.

***Attention!** When setting the initial lot, consider the total volume subsequent positions! It is not recommended to use too high a value in Coupe with high LotExponent and small range size. In that case, the position will gain critical volume too quickly and the score will be instantly merged.*

- **Lotdecimal** - the number of decimal places in the lot value. Value may vary depending on the type of trading account and the trading conditions of your broker. For example, if you set the "Lots" parameter to 0.01 - "Lotdecimal" should be equal to 2. With Lots = 0.5, "Lotdecimal" should be equal to 1.

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- **TakeProfit** - the number of points to close a series of positions. That is, the series closes when profit reaches "TakeProfit" points.
Do not put too much importance, since the purpose of the adviser, first turn, as soon as possible to bring the series to profit and start a new one. Far profit can delay the exit from the drawdown for a long time (from several days to many months).
- **Drop** - automatic closing of positions at sharp jumps in quotes. For analysis CCI indicator is used. If the value is "0", the function is disabled.
In theory, this function should save from sharp news leaps, preventing even bigger losses.
- **RsiMinimum** - value of the lower border of the RSI indicator. The parameter is used to determining the oversold zone when opening a sell position.
- **RsiMaximum** - value of the upper border of the RSI indicator. This value defines overbought level and is used when opening a buy position.
- **MagicNumber** - identification ("magic") number for each order.
A unique number should be set for each copy of the EA working on one account.
- **MaxTrades** - the maximum number of simultaneously open positions.
Obviously, the lot cannot grow indefinitely (subject to a final deposit), therefore, the maximum size of a series of positions in according to the size of your initial capital.

- **UseEquityStop** - enable the function of limiting loss on equity.
- **TotalEquityRisk** - upon reaching the specified percentage drawdown in equity, all positions will be automatically closed.
- **UseTrailingStop** - enable the Trailing Stop function for all positions. If *false*, Trailing Stop function does not work.
- **TrailingStop level** - as soon as the profit in points becomes equal to or greater the specified level, a command is issued automatically to place a Stop Loss order. The order level is set at a specified distance from the current price. Further, if price moves with increasing profitability of the position, trailing stop automatically Moves Stop Loss for the price. If position profitability decreases, modifications an order does not occur.
- **TrailingStop step** - step in points.
- **UseTimeOut** - enables closing positions by time. That is, regardless of financial result, all positions are closed if there are more set term.
- **MaxTradeOpenHours** - time in hours after which all positions are closed.
- **MarketExecution** - set SL and TP for market orders after opening warrants. This parameter must be used when working on an ECN type account.
- **RSI TimeFrame** - period of the chart for calculating the indicator.
- **RSI Period** - averaging period for calculating the indicator.
- **CCI TimeFrame** - period of the chart for calculating the indicator.
- **CCI Period** - averaging period for calculating the indicator.

Common parameters

- **Comments** - comments when working with a trading server.

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- **Sounds** - sound signals during trading operations.
- **Visualization** - visualization of trading operations on the chart.

Testing and optimization

Before using the adviser on a live account, you first need to test for deep history to assess the potential and possible risks. Advisor testing should only using the *"All ticks"* model, this is the most accurate generation method ticks. Before testing, you need to optimize all input parameters. Optimization should be done using the *Control Points* model, This is the most balanced method for generating ticks - in terms of speed and accuracy. Optimization may take a long time, but the optimization results will be much more accurate than

when using the faster "*Open Prices*" model .

Optimization Procedure

- Open the strategy tester (Ctrl + R).
- Select the "*Ilan Dynamic Premium*" Expert Advisor .
- Select the desired character.
- Select the desired period.
- Select the model "*Control points*" .
- Set the spread close to the current one (number of points).
- Enable date use.
- Set the date (from) and (to), lasting for the last three months.
- Open expert properties by clicking on the corresponding button in the tester.
- Open the "*Testing*" tab .
- Set the desired deposit and deposit currency.
- Select "*Long & Short*" .
- Set the optimized parameter "*Balance*" .
- Enable genetic algorithm.
- Open the tab "*Input parameters*" .
- Download the optimization template (file "*Optimization*").
- Open the tab "*Optimization*" .
- Set a limit on the maximum drawdown.
- Set other necessary restrictions.
- Close the expert properties window by clicking on the "*OK*" button .
- Start the optimization process by clicking on the "*Start*" button .
- After optimization is complete, open optimization results.
- Choose one of the options with the results and apply through the context menu
"*Set input parameters*" or double-click on the option you want.
- After applying optimized input parameters, proceed with testing.

Contacts

If you have additional questions, I will always be happy to answer them.

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I wish you every success in the financial markets!