



FRWC Fusion-V 1.1a

Developer: FRWC programming team

Currency: Trades multiple currency pairs. **Attach to a EURUSD M1 chart ONLY!**

Timeframe: M1

Strategy Description

The FRWC Fusion-V EA is a great synergy of some of the best performing robots from the contest:

LMD-MultiCurrency, HiRider, SuperVolcano, Neg-Correlation and Straasha

When combined together, along with some improvements by the experienced FRWC team, they produce really great results. For example, the Straasha EA did not perform well during the live trading phase because of some minor bugs, but it has great potential which was used in the FRWC Fusion-V EA! Read a more detailed description of each system in this manual.

How to install this robot

The FRWC Fusion-V EA should be attached **only** to a EURUSD M1 chart. It automatically trades on several currencies and timeframes depending on the systems that you enable via its settings.

Warning! Do not attach it to multiple charts or you run the risk of duplicate trades being opened!

IMPORTANT: Ensure that you have opened the following additional charts which the Fusion-V EA requires to gather information from:

USDJPY D1, USDCAD D1, EURGBP D1, GBPUSD D1, USDCHF D1, EURCHF D1, AUDUSD D1

If you do not have the above charts open when running Fusion-V then you will encounter a “zero divide” error and the EA will not function correctly.

Broker Requirements

Ensure that your account supports micro lots (0.01 lots) in order to use this robot.

The FRWC Fusion-V EA includes LMD-Multicurrency which was designed to work on D1 price bars BUT the Open/High/Low/Close values can differ between brokers depending on the GMT Offset they use. Our own testing has shown that LMD will produce the most consistent results when run on brokers with a GMT offset of +1 (i.e. FXCM, IamFX, Alpari). Using LMD with brokers who have a GMT offset of +2 or 0 should be fine too but if your broker has a GMT offset beyond that range then you are likely to see noticeably different results and we suggest you run a forward test for a while and/or use conservative lot sizes until you feel comfortable with how the system performs.

Robot Settings

The FRWC Fusion-V EA includes 5 strategies – that’s why it has a lot of settings for each strategy and we decided to explain each part in detail.

Lot size and Money Management Settings

Variable	Value	Start	Step	Stop
<input type="checkbox"/> Size_of_lots				
<input type="checkbox"/> UseMM	false			
<input type="checkbox"/> Lots	0.1	0.01	0	0
<input type="checkbox"/> LotsRiskReductor	5	1.5	0	0
<input type="checkbox"/> MaxLots	10	10	0	0

- **PlimusRefNr** – this is your Plimus Reference Number from your purchase receipt and is required to activate the EA. For your convenience, we display your Plimus Reference Number within the FRWC member area when you log in to your account
- **Lots** – defines the fixed lot size for each trade when “Money Management” is not used. Our opinion is that a lot size equal to 0.01 for each \$1,000 of available equity is reasonable. That means if your equity is \$5,000 then you could set **Lots** to 0.05
- **UseMM** – if True, the EA uses its built-in money management system
- **LotRiskReductor** – defines the risk for the Money Management system. For example if you set **LotRiskReductor** = 5 then the EA will risk 5% of your available margin to open a new position and will calculate the lot size accordingly.
- **MaxLots** - specifies the maximum lot size that the EA is able to open

In our opinion, it is far safer to turn off the automatic Money Management feature and set a fixed lot size of 0.01. This is because certain strategies i.e. Straasha, involve a modified Martingale system while other strategies (like HiRider) can open up to 10 trades at a time! You must therefore set a “safe” lot size to avoid unnecessary risks.

GENERAL OPTIONS

<input type="checkbox"/> General_Options				
<input type="checkbox"/> GMTOffset	1	1	0	0
<input type="checkbox"/> StealthMode	false			
<input type="checkbox"/> CloseByGlobalEquity	30	0	0	0

- **GMT Offset** – defines the offset of your broker relative to GMT. This should be set to 1 for FXCM, IamFX and Alpari. If in doubt, your broker will confirm their GMT offset
- **StealthMode** – this feature hides the TP and SL levels from the broker
- **CloseByGlobalEquity** – (defined as a %age of equity) When a certain percent of profit is reached, all open trades will be closed. For example if your deposit is \$5,000 and you set your **EquityProfitCloseLimit** = 10 then if the account equity reaches \$5,500 during the day, all open trades will be closed. You can experiment with this setting, varying it between 5 and 30, depending on your MM objectives and aspirations

Using the **CloseByGlobalEquity** is a good way to exit trades since the **FRWC Fusion-V EA** includes so many different trading strategies. (**HiRider** alone has 5)

<input type="checkbox"/> Main_Switchers				
<input type="checkbox"/> Enable_SuperVolcano	true			
<input type="checkbox"/> Enable_Neg_correlation	true			
<input type="checkbox"/> Enable_Straasha_system	true			
<input type="checkbox"/> Enable_HiRIDER	true			
<input type="checkbox"/> Enable_LMD_Multicurrency	true			

The main “switches” allow you to enable or disable the main strategies built into the Fusion-V EA.

There are a huge number of parameters for each system included in the Fusion-V EA. Most will not be discussed in this manual as they are covered in the corresponding documents for each of the individual EAs.

The Straasha system, however, is not explained elsewhere so we have explained its parameters here. Remember, Straasha is the 3rd system in the Fusion-V EA so it is called S3 for short.

Straasha System Parameters

<input type="checkbox"/> ____Straasha_system____				
<input type="checkbox"/> S3_next_lot	4	4	0	0
<input type="checkbox"/> S3_TakeProfit	4	4	0	0
<input type="checkbox"/> S3_MaxLoss	10	10	0	0
<input type="checkbox"/> S3_MinProfit	10	10	0	0
<input type="checkbox"/> S3_step	10	10	0	0

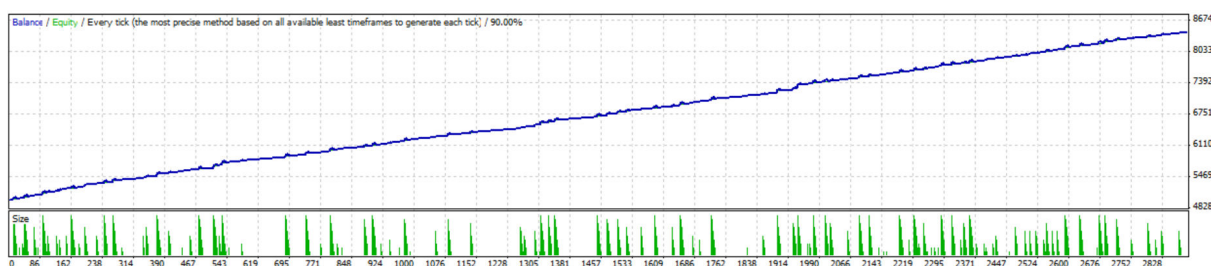
- **S3_next_lot** – this is the multiplier for the step calculation of the lot size which is used to increase the lot size of subsequent trades in the Martengale grid. Here is the formula for those interested: $\text{current_next_lot} = \text{S3_next_lot} * \text{Lot_of_the_main_order}$
- **S3_TakeProfit** – the TP target of the main order. If set to 0 then the feature is disabled
- **S3_MaxLoss** – the maximum loss (in the account currency) before opening the Martengale grid. You should set it for the situation when the $\text{Lot_of_the_main_order} = 0.01$ - depending on the current lot size of the main order it will be automatically corrected. Here is the formula for those interested: $\text{Current_MaxLoss} = (-1) * \text{Lot_of_the_main_order} / 0.01 * \text{S3_MaxLoss}$
- **S3_MinProfit** – the minimum profit (in the account currency) before closing the Martengale grid. You should set it for the situation when the $\text{Lot_of_the_main_order} = 0.01$ - depending on the current lot size of the main order it will be automatically corrected.
- **S3_step** – this is the distance between the Martengale grid levels
- **S3_criticNb** – do not change this value

Fusion-V EA Back-tests

Remember: MT4 strategy tester limitations do not allow multi-currency back-tests. That's why you can back-test each system that was included in the EA on just one currency pair at a time!

You can find the back-tests for each system included in the FRWC Fusion-V EA in the corresponding individual EA manuals.

Here is the Straasha system back-test for 2008-2010:



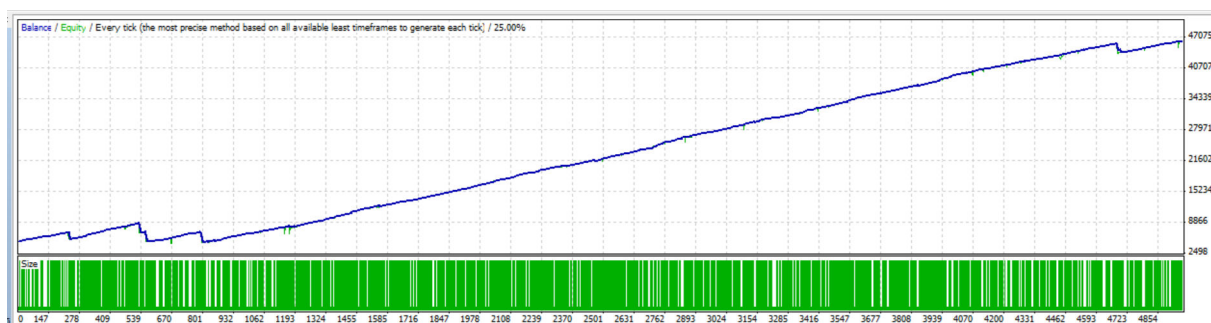
The Straasha system is a good scalping strategy for the EURGBP pair. It involves a Martengale lot progression in the case of a loss so be sure to start with 0.01 lot orders to be on the safe side!



You can study the detailed Straasha back-test report here:

http://www.forex-robot-world-cup.com/frwc_backtests/STRAASHA_2008_2010.htm

Here is an example of a FRWC Fusion-V back-test on EURUSD pair (LMD and HiRider trade together)



You can study the detailed FRWC Fusion-V EURUSD back-test report here:

http://www.forex-robot-world-cup.com/frwc_backtests/Fusion_EURUSD_2008_2010.htm

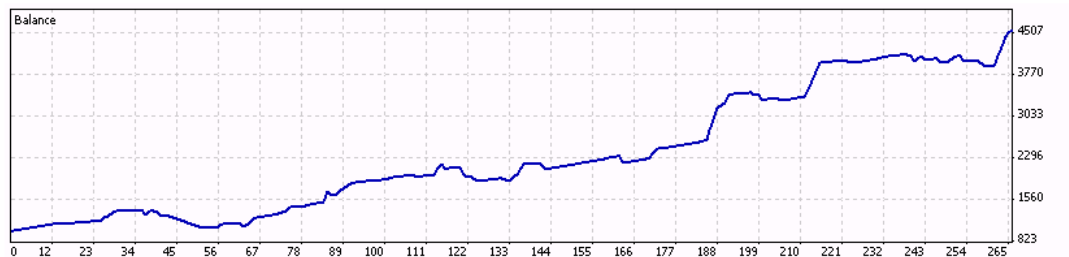
Fusion-V EA Live Trading

The FRWC Fusion-V EA performed exceptionally well on the live test and quadrupled the \$1,000 account in less than three weeks! It has proven to be a great performing robot. Take a look at the live trading report:

Summary:

Deposit/Withdrawal:	989.14	Credit Facility:	0.00		
Closed Trade P/L:	3 554.61	Floating P/L:	0.00	Margin:	0.00
Balance:	4 543.75	Equity:	4 543.75	Free Margin:	4 543.75

Details:



Gross Profit:	5 340.34	Gross Loss:	1 785.73	Total Net Profit:	3 554.61
Profit Factor:	2.99	Expected Payoff:	15.73		
Absolute Drawdown:	0.00	Maximal Drawdown:	309.42 (22.44%)	Relative Drawdown:	22.44% (309.42)
Total Trades:	226	Short Positions (won %):	118 (88.98%)	Long Positions (won %):	108 (73.15%)
		Profit Trades (% of total):	184 (81.42%)	Loss trades (% of total):	42 (18.58%)
Largest		profit trade:	196.14	loss trade:	-114.90
Average		profit trade:	29.02	loss trade:	-42.52
Maximum		consecutive wins (\$):	24 (1 221.12)	consecutive losses (\$):	10 (-209.80)
Maximal		consecutive profit (count):	1 221.12 (24)	consecutive loss (count):	-219.87 (3)
Average		consecutive wins:	7	consecutive losses:	2

You can verify the Fusion-V trading account using the "Investor Password" available from the FRWC member area.