

Hi, basically I hope someone could help write me a Trend EA that is based on a maximum of 3 MAs.

The EA has 3 strategies...

STRATEGY 1: BATTLE RAM

The EA places a Buy/Sell order once the candlestick passes through and/or closes on the 1st MA, 2nd MA or all 3 MAs (user selectable). Depending on the triggering candlestick, if it's Bullish (going up, green, black), once the candlestick closes on the x MA, it'll place a Buy Order (on market execution).

If the triggering candlestick are Bearish (going down, red, white), it will place a Sell Order (market execution).



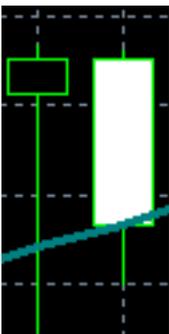
In the example above, the white candle may not open a position. But the black candle may. Even though both candles closed on the MA line, order pushed is based on the % of "candle-closed size" on the MA line.

STRATEGY 2: SURFER

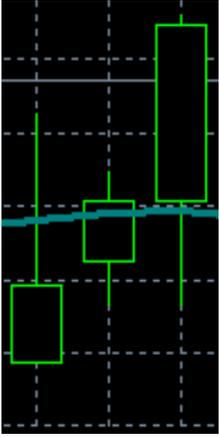
The EA follows the trend of the 1st MA. If the trend is going up, The EA once started, it places a Buy Order. If the trend is going down, the EA places a Sell Order.

STRATEGY 3: ESCAPE ARTIST

The EA places a Buy/Sell order in the opposite direction of candlestick(s) that touches (wick or closing) the MA line(s) (user chooses 1st, 2nd, or all 3) based on the number of Confirmations. A confirmation is met when a candlestick touches (wick or closing) the MA line(s). Consider the examples below:



Bullish Candle (black) touches the MA line. White Bearish Candle (white) closes on the MA line.



1st Bullish Candle (from the left) touches the MA line.

2nd Bullish Candle closes on the MA line.

3rd Bullish Candle touches the MA line.

RISK MANAGEMENT

Unlike most EAs where user sets TP/SL for each position opened, this EA allows to set only one TP/SL for the whole trade session. A session takes into account all active positions only.

There can be a few concurrent positions opened in a session, as long as the TPs or SL is met, the EA will close all positions at once, similar to martingale. Therefore, user can set these parameters:

1. MANAGEMENT TYPE

- Global Management
Stop Loss (SL) & Tolerance set once and governs the operation of the entire session/account.
- Local Management
Stop Loss (SL) & Tolerance set to each and every position opened.

2. MAX ORDER

- Max Order depending on Global or Local selection above. Global affects per session. Local affects per instrument.

3. DISTANCE

- Distance from one Order to another in pips.

4. LOT SIZE

- Starting Lot Size.

5. LOT SIZE (GOLD)

- Starting Lot Size for instruments traded that involves Gold, e.g. XAUUSD. This value overrides the value in 4.

6. TOLERANCE

- Tolerance as in how much “pushback” is allowed before EA “decides” when the “least” profit is taken.
- 0 = not used.
- Pips, % to account size & profit value, \$ value (for a session, or a day))



In the example above, "Tolerance" could be explained by the white bullish candle in the middle of the picture. Profit was increasing before it until profit started to drop. Tolerance defined in this manner, example if set 35%, it means from the point the bearish candle closed on the MA line, until the bearish candle before the white bullish candle (100%), tolerance kicks in meaning, out of that profit of 100%, user allows only 35% of it lost (in the bullish candle) before EA grabs the profit regardless the TPs set.

7. STOP LOSS (SL)

- Pips, % to account size, \$ value (for a session, or a day))

8. TAKE PROFIT (TP)

- TP Min (minimum) - TP min in pips, \$ value.
- TP Max (maximum) - If the position opened goes in favour, EA will bypass TP min requirement and tries to reach TP max. TP max is set in pips
- TP Pushback - EA will try to hold TP open until there's a pushback (Tolerance), then closes the position(s).

9. MARTINGALE

- Yes/No

10. LOT MULTIPLIER

- Only if Martingale is enabled.

11. MAX LOT

- Biggest lot size allowed if Martingale is enabled.

12. AVERAGE TRUE RANGE (ATR)

- Yes/No (If ATR is enabled, ATR will re-adjust Distance automatically)
- ATR TimeFrame – Adjustment based on pips movement in how many hours/minutes timeframe

MARTINGALE

Affects both Global and Local Risk Management. The "Martingale" for the EA works like this. Based on the pair/session's SL and TPs, it will try to achieve any one of the TPs as long as SL is not met. Assuming: Buy position on size 0.01, should it go into a deficit, the EA will note it down as per session. After Distance is met, if the session is still in deficit from when position opened, the EA will place a new order in the opposite direction with Lot Multiplier taken into account.

Depending on the pair/session's deficit, if it's increasing, the EA will place more orders in the opposite direction with the lot multiplier increased, at every Distance interval. The EA will try to do this until one of the TPs is met, or until Max Order is fully utilized. Closes all trades once SL is met for the pair/session. After the pair/session closes, Distance and Lot Multiplier reset to user-defined values.

Note that if Martingale is not enabled, the EA will still place new Orders based on how the candlestick corresponds to the 3 MAs as defined in the 3 Strategies above.

USER SETTINGS

Users generally are allowed to set these:

1. STRATEGY

- Strategy 1: Battle Ram
- Strategy 2: Surfer
- Strategy 3: Escape Artist

2. MA RELATED

- Settings: For MA1, MA2 and MA3
- Influence: EA referencing to which MA to work; 1, 2, 3 or all 3
- Confirmation: Based on candle's body (close) or wick/shadow (touch)
- Closed Candle Size: How many % of candle's body closed (from bullish/bearish) before EA creates an order. If value is set to 15%, this means EA would need 15% of the candle's body closed on the MA lines

3. TREND

- Buy and Sell
- Buy Only
- Sell Only
- Disabled (No trading)

4. RISK MANAGEMENT

- Type
- Max Order
- Distance
- Lot Size
- Lot Size (Gold)
- Tolerance
- Stop Loss
- Take Profit
- Martingale
 - o Enabled/Disabled
 - o Lot Multiplier
 - o Max Lot
- Average True Range (ATR)
 - o Enabled/Disabled
 - o TimeFrame

5. MARKETS TRADED

6. MAGIC NUMBER

VISUALS

- A dashboard that shows statistics of each Session:
- Current Timestamp
- EA Running - How long as the EA been running (Months, Weeks Hours, Minutes, Seconds)
- Initial Deposit – How much account had when EA started.
- Account Balance – Current account's balance
- Profit/Loss
- Update on how much SL left for the session/day.
- -----
- Number of sessions
- Positions closed (in profit / in loss)
- Growth
- Drawdown

RESTRICTION AND CONTROL

I foresee I'll be needing Beta-Testers to test the EA prototype. Please include a "control mechanism"; example if I were to pass the EA to someone to test, the EA works for only 5 days, and is locked to the account number. So that before I pass them the EA to test, I set all the information needed.

EXPECTATIONS

- Functional prototypes to test if the EA behaves as how it is expected to be.
- Inclusive of fixes and improvements of the prototype so that it is fully functional as defined above.
- Developer able to suggest/give/add personal input based on his/her experience in the field.
- Professional and Quality EA.
- Long term support and enhancement opportunities.
- EA to be made exclusive.
- Source Code given.