

# EMA's Crossing - Scalping Bot

## Full Specification Sheet

### Overview:

Scalping bot

Accuracy of execution is paramount

Operating on MT5

Operating on any Market Watch Symbols as selected by user (Forex, Commodities, Indices, Virtual Indices)

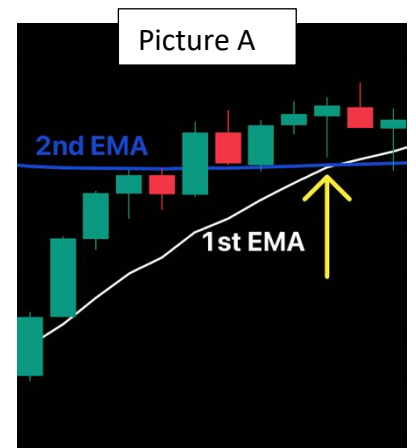
Operating on any time frame (per chart timeframe selected by user)

### Strategy:

When 2 Moving Averages (EMA's) cross, bot must open a trade in the direction of the first EMA (first EMA and second EMA will be selected in parameters by the user)

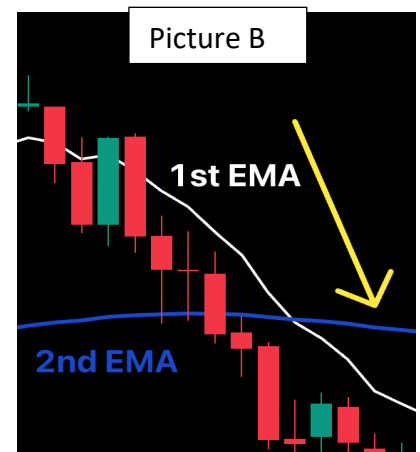
#### Example 1:

- 1<sup>st</sup> EMA (white in picture A) moves up through 2<sup>nd</sup> EMA (blue in picture)
- Bot must enter a Buy



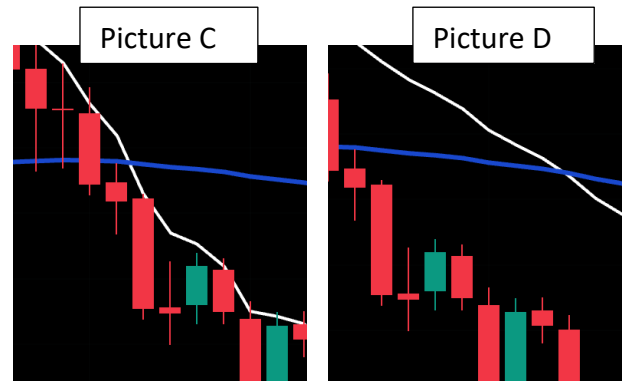
#### Example 2:

- 1<sup>st</sup> EMA (white in picture B) moves down through 2<sup>nd</sup> EMA (blue in picture)
- Bot must enter a Sell



Example 3:

- In picture C, the price action is at the crossing of the EMA's
- In picture D, price action (candles) is further away from the crossing of the EMA's
- User must be able to select the maximum pips between the crossing of the 2 EMA's and the price action.
- If the price action (candles) is further away from the EMA's crossing than selected by the user, no trade must be entered



- NOTE: Trade must be opened at the exact instance that the EMA's cross, subject to pips distance, and not a second later

Bot to include the following selectable operating parameters:

\* Please Use descriptions as per items in **Bold** below, and in the same sequence

1. Select **Risk per Trade**:  
    % of account risk: xxx (input value of None or from 0.001% to 100%)  
    Note: If Auto is selected, the Stop Loss determines the Lot Size.  
    If account is 100\$ with 10% risk, then total risk per trade is 10\$.  
    Then, a Stop Loss of 100pips must be 0.10\$ per pip
2. Select **Fixed Lot**: Select from dropdown list: True or False
3. Select **Fixed Lot Size**: select value from 0.01 to 100
4. Select **Moving Average 1** parameters:
  - i.) Period: xxx (input value from 0 to 1000)
  - ii.) Shift: xxx (input value from 0.00 to 1000)
  - iii.) Method: xxx (select from dropdown list one of the following: Simple / Exponential / Smoothed / Linear Weighted)
  - iv.) Apply to: xxx (select from dropdown list one of the following: Open / Close / High / Low / Median Price / Typical Price / Weighted Close)
  - v.) Select Colour for MA 1

Note: Display selected Moving Average on Chart in chosen colour

5. Select **Moving Average 2** parameters:
- i.) Period: xxx (input value from 0 to 1000)
  - ii.) Shift: xxx (input value from 0.00 to 1000)
  - iii.) Method: xxx (select from dropdown list one of the following: Simple / Exponential / Smoothed / Linear Weighted)
  - iv.) Apply to: xxx (select from dropdown list one of the following: Open / Close / High / Low / Median Price / Typical Price / Weighted Close)
  - v.) Select Colour for MA 2

Note: Display selected Moving Average on Chart in chosen colour

6. Select **Pips Gap Limit**: Select from dropdown list: AUTO or SELECT
- i.) For Auto, no maximum limit exists
  - ii.) Maximum pips between crossing of EMA's and price action: xxx (input value from 0 to 1000)
7. Select **Number of open trades** allowed: xxx (input value from 1 to 3)  
Only 1 trade to be opened at an opportunity  
This option is to allow subsequent trades to be placed if any of the previous trades are still open
- i.) If 1 is selected, then only 1 trade can be open at any time. New trade cannot open until existing trade has closed
  - ii.) If 2 is selected, then no more than 2 trades can be one at any time. If 2 trades are open and 1 close, then 1 trade may be opened at the next opportunity when new conditions meet requirements.
  - iii.) If 3 is selected, then no more than 3 trades can be one at any time. If 3 trades are open and 1 or 2 closes, then 1 or 2 trades may be opened at the next opportunity when new conditions meet requirements.
8. Select **Time Delay Between Trades**: xxx (input value from 1 to 1000) in minutes  
This is the delay from the Opening of 1 Trade to the opening of a next Trade. (whether the 1<sup>st</sup> trade is currently Open or has Closed is irrelevant)

9. Select **Take Profit**: xxx (input value from 50 to 1 000)
10. Select **Stop Loss**: xxx (input value from 50 to 1 000)
11. Select **Trailing Stop Loss**: True / False
  - i.) Select **Trailing Start**: xxx (input value from 1 to 1 000)
  - ii.) Select **Trailing From**: xxx (input value from 1 to 1 000)
  - iii.) Select **Trailing Step**: xxx (input value from 1 to 1 000)
12. **Magic Number**: 12345
13. Select **Slippage**: xxx (Auto or input value from 1 to 1 000)
14. Select **Maximum Spread**: xxx (Auto or input value from 1 to 1 000)  
Note: do not open trade if spread is bigger than selected
15. Select **Trading Direction** (select from dropdown list one of the following:
  - i.) Buy Only
  - ii.) Sell Only
  - iii.) Buy and Sell
16. Select **Time Start Trading** :
  - i.) Select Start Hour (24hr setting, i.e. 00:00 to 23:59; not AM and PM)
  - ii.) Select Start Minute
17. Select **Time Start Trading** :
  - i.) Select End Hour
  - ii.) Select End Minute

Display the following on the chart:

1. Moving Average 1 in colour selected
2. Moving Average 2 in colour selected
3. Moving Average 3 in colour selected
4. Position of opened trade (when trade is open)
5. Stop Loss
6. Take Profit

With handover, send all the materials relating to the implemented order, including Source Code and executable file