1.0 FuturesTrade Installation Guide

The setup for FuturesTrade Experts is simple and quick.

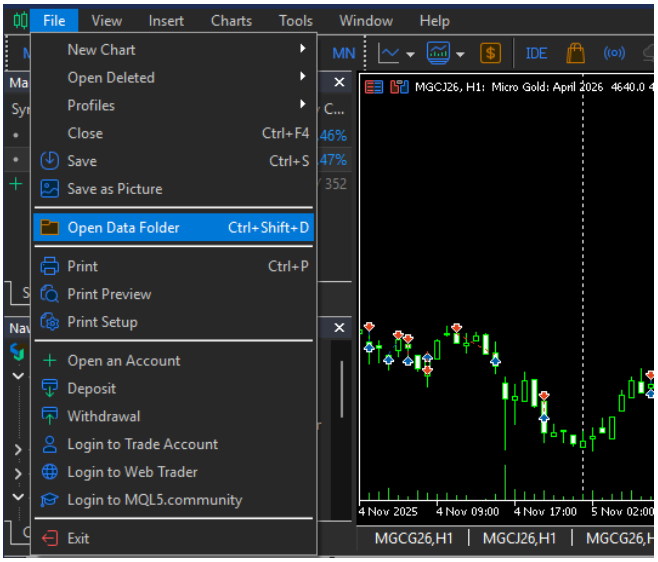
First, download the latest version of the Experts from https://futurestrade.ai/mt5

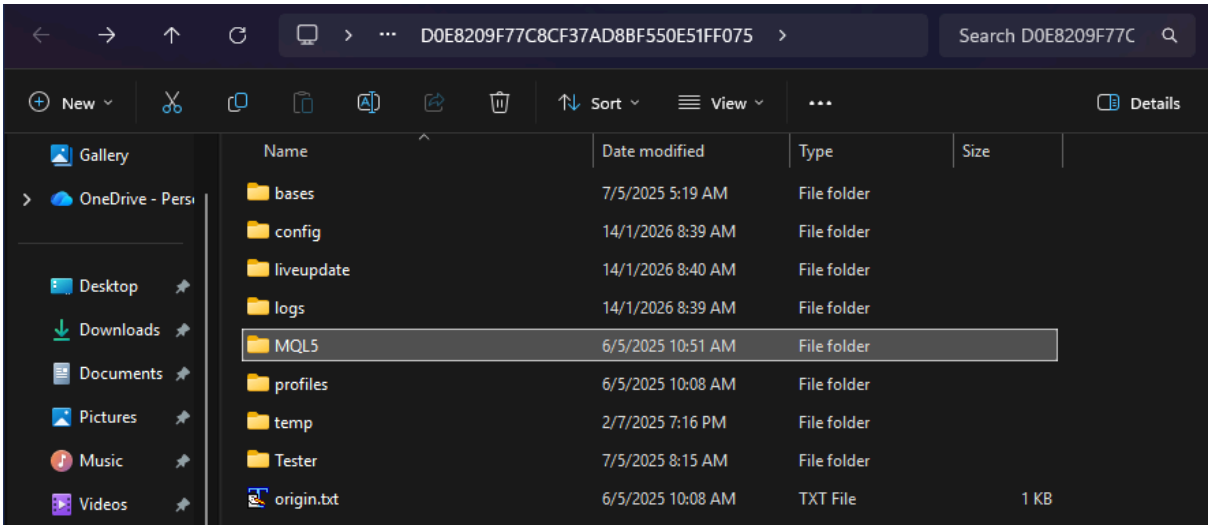
The ZIP file contains two folders:

1. Experts
2. Libraries

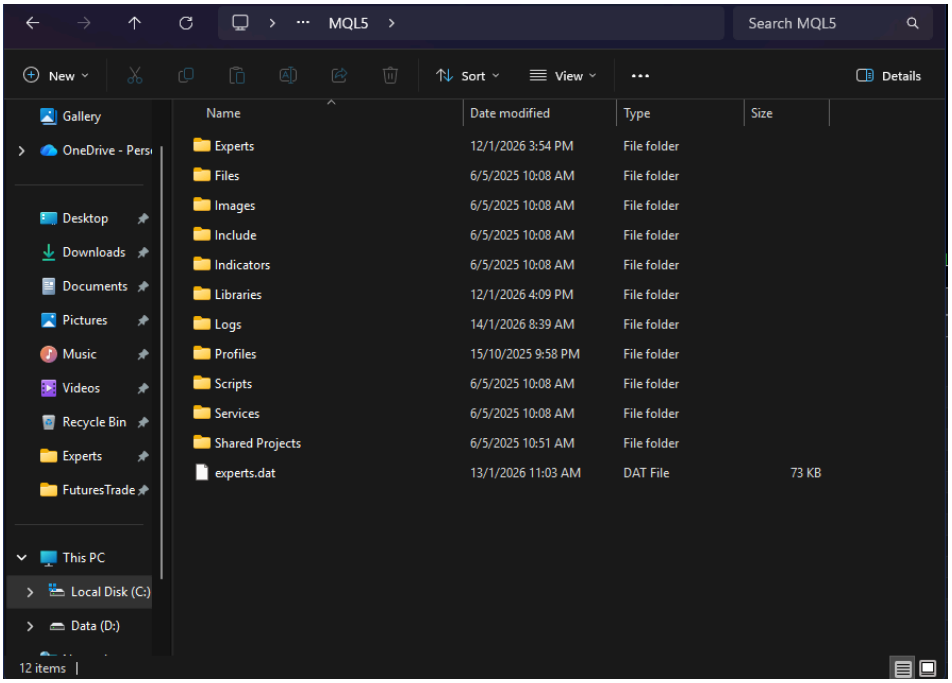
To install, copy both folders into the MQL5 folder inside your MetaTrader 5 Data Folder.

You can refer to the images below for step-by-step guidance on how to locate the MQL5 folder.

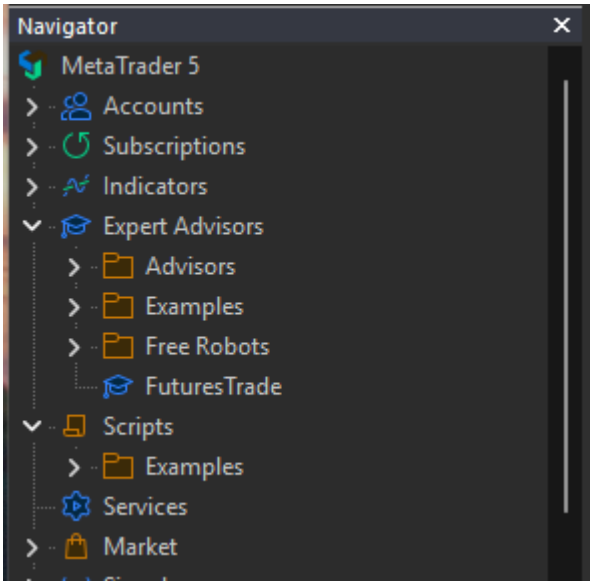




This is where you place the FuturesTrade Experts:



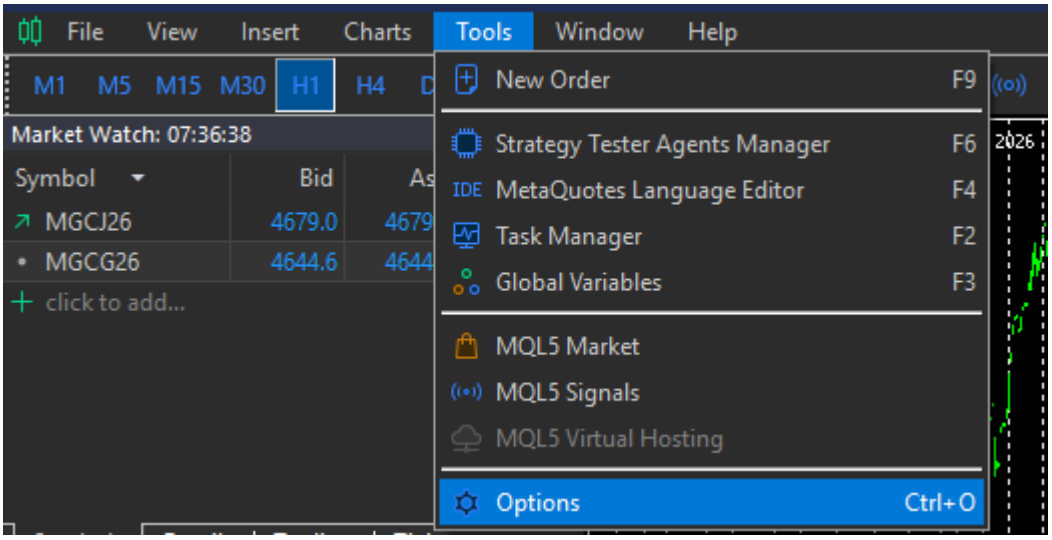
You can confirm that the Expert has been installed successfully by opening MetaTrader 5 and checking the Navigator panel under Expert Advisors → FuturesTrade.



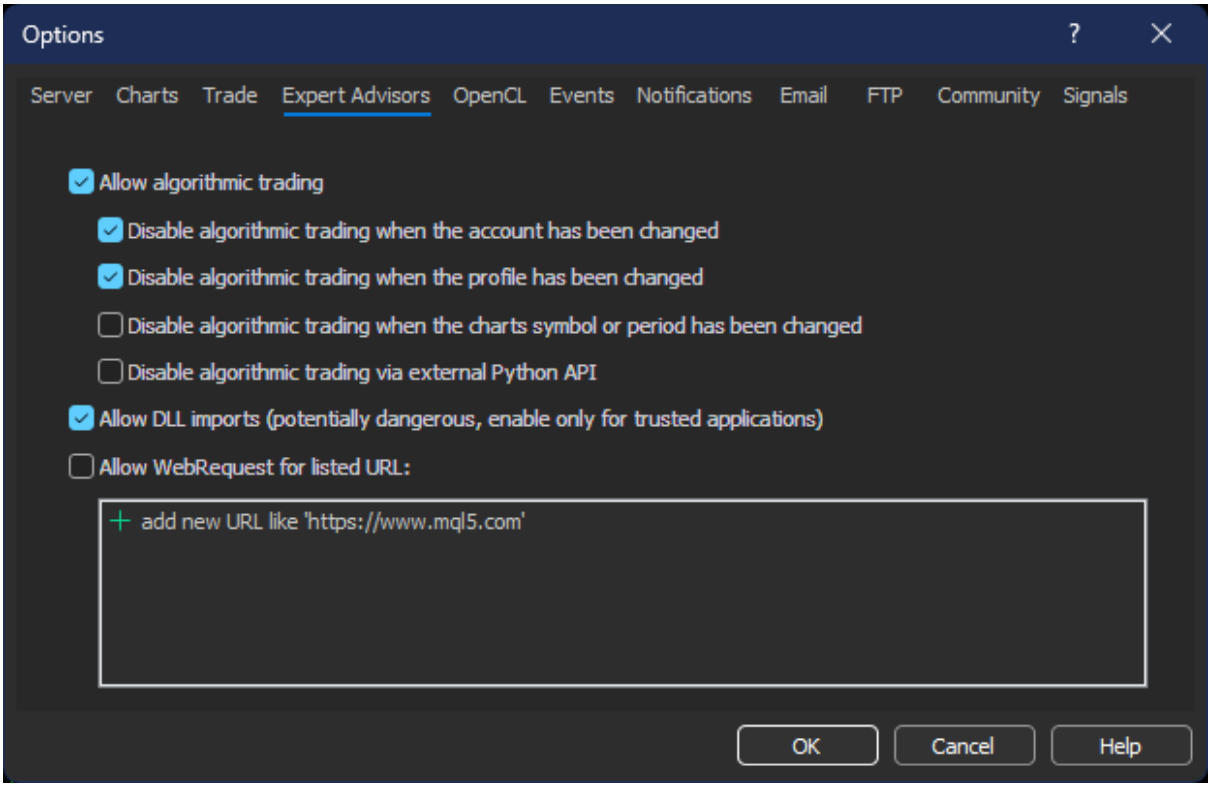
2.0 Enabling DLL (optional)

Before running FuturesTrade, ensure that the DLL imports feature is enabled in your MT5 platform. FuturesTrade relies on a DLL library to communicate with the decision server. Since this feature is disabled by default, you may need to enable it manually.

Navigate to Tools → Options to configure this setting.



Navigate to the Expert Advisors tab and check “Allow DLL imports.”



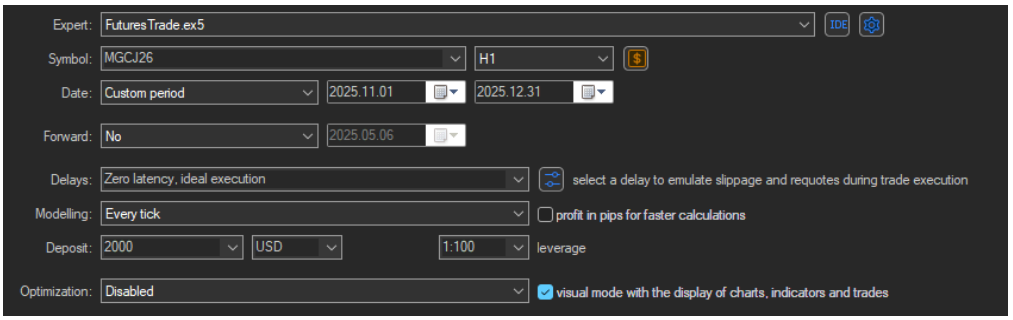
3.0 Basic Training Setup

The setup consists of **two stages** designed to improve decision quality and accuracy during live trading, using the built-in MT5 Strategy Tester.

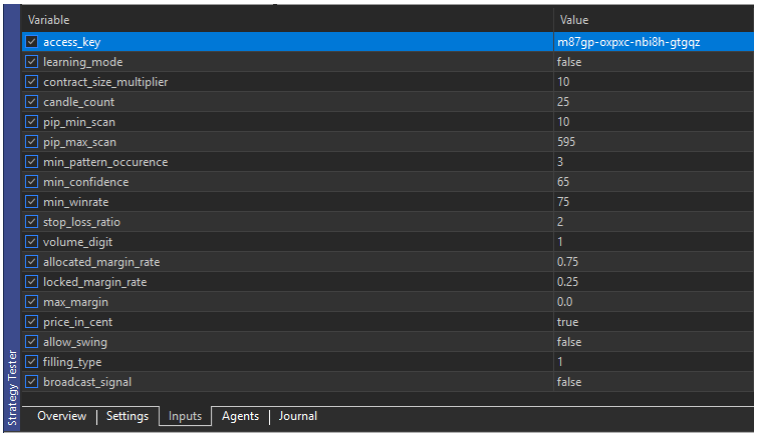
1. Learning Phase
2. Trade Learning Phase

Stage 1: Learning Phase

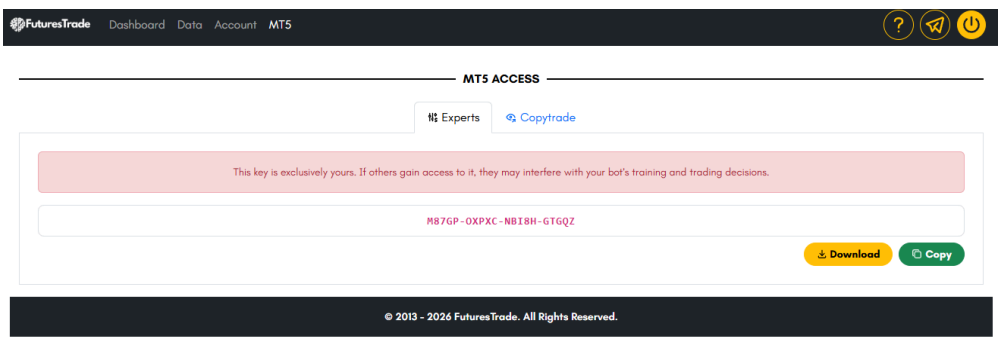
1. Open MT5 and Strategy Tester, select `FuturesTrade.ex5` and make sure you load the chart data to determine the Period of testing



2. Navigate to the Inputs tab

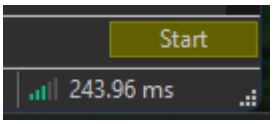


3. Get the `access_key` from [FT's MT5 management](#).

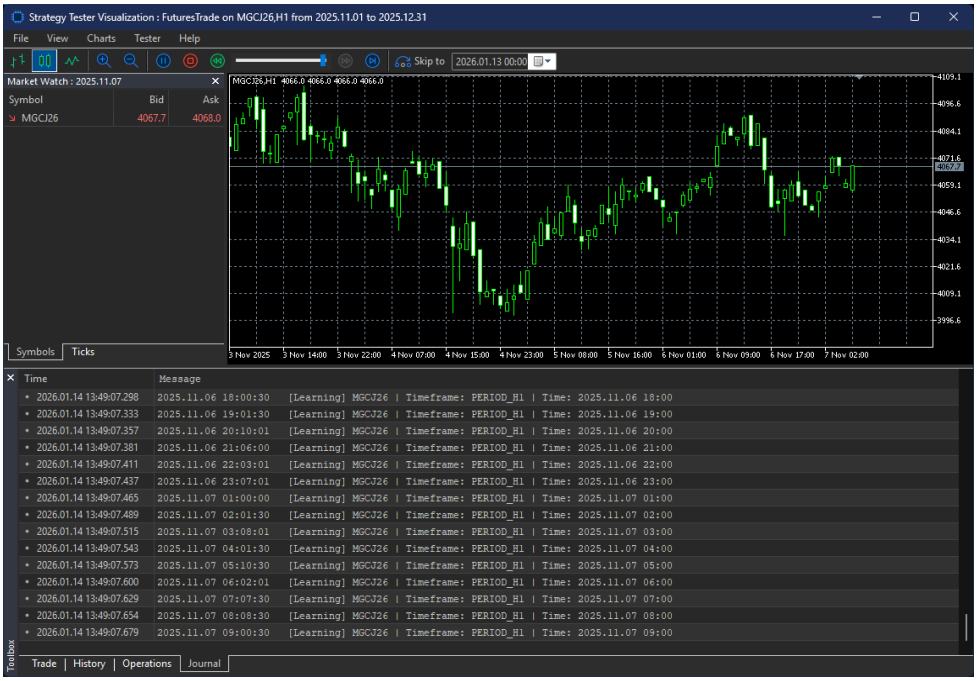


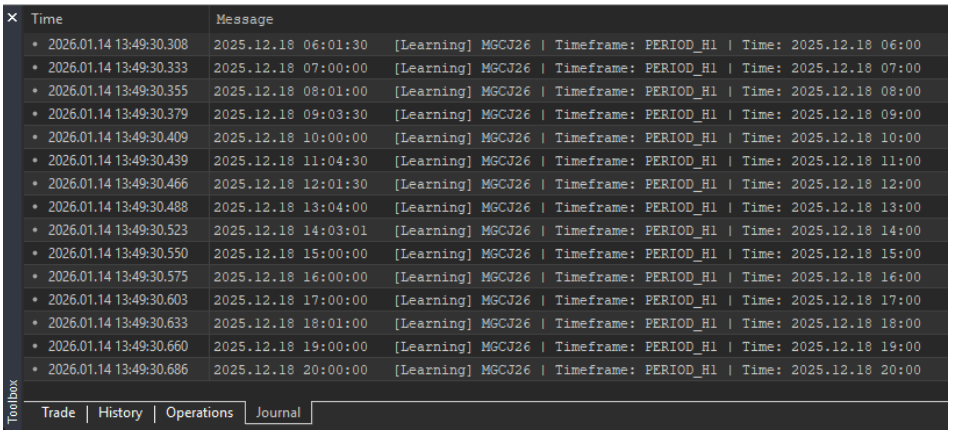
4. Set the `learning_mode` to `true`

5. You may set any amount of deposit and hit Start. The system will now start learning. Trading won't happen in this mode.

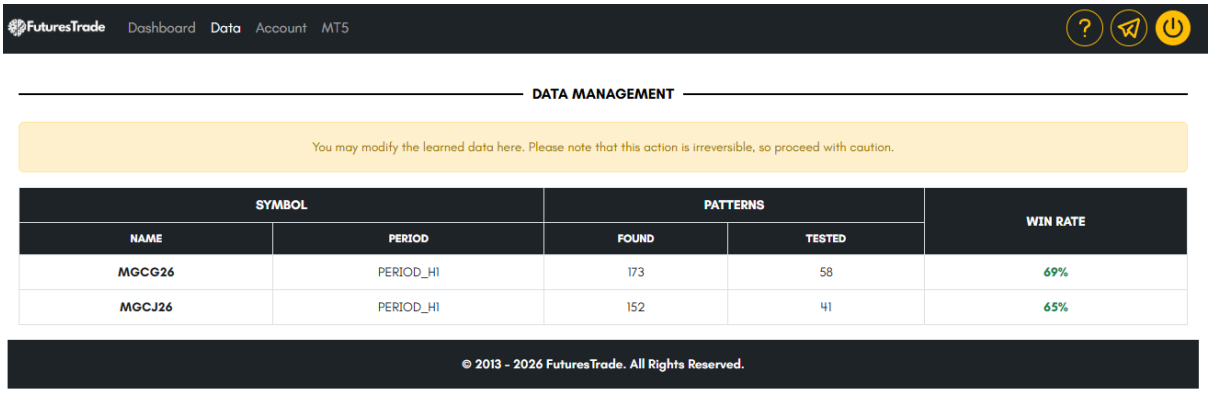


6. You may check on the Journal tab of the Simulator to ensure the learning process is working as expected.





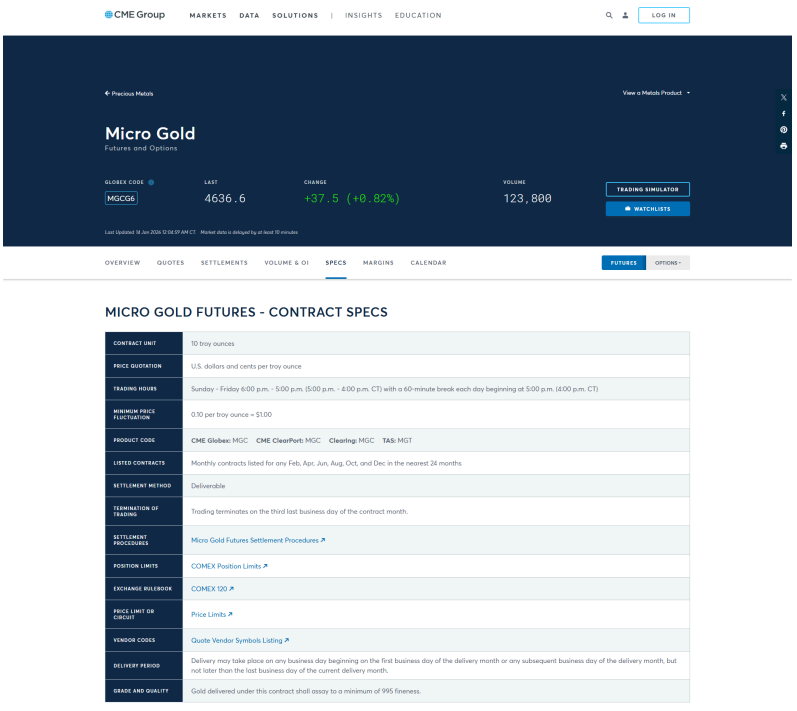
7. This process can be repeated several times using different Periods to ensure the system captures all the existing patterns.
8. To confirm the patterns is already learned by the system you may check on the Web Data menu and you might see something like below:



Stage 2: Trading Learning Phase

1. Open the Inputs tab and set `learning_mode` to `false`

2. Next, configure the settings to match the current contract. In this example, we are using MGCJ26 (Micro Gold, February 2026). Contract specifications can be found on the official CME website.



3. According to the specification, we will configure FuturesTrade to support the MGC symbol by setting the `contract_size_multiplier` to `10` (10 troy ounces per contract as stated on the official website) and defining `price_in_cent` to either `true` or `false` based on how the contract price is quoted (either in cents or in dollars).

Name	Description
`contract_size_multiplier`	Defines the contract size factor used when converting price movement into actual profit, loss, and margin calculations. A value of `1` means no adjustment (standard contract size). For contracts like MGC, this should be set to `10` to represent 10 troy ounces per contract. This ensures PnL, margin, and risk calculations scale correctly with the real contract size.
`price_in_cent`	Indicates how the instrument price is quoted by the broker. **`false`** → price is quoted in dollars (e.g. 1950.30) **`true`** → price is quoted in cents (e.g. 195030) When set correctly, this prevents 10× / 100× miscalculations in PnL, stop loss distance, and margin usage.
`filling_type`	Selects the order filling policy used when sending a trade request. Mapping based on the code: **`1`** → ORDER_FILLING_RETURN Allows partial fills; any unfilled volume remains pending. **`2`** → ORDER_FILLING_IOC (Immediate or Cancel) Fills available volume immediately; unfilled portion is cancelled. **`3`** → ORDER_FILLING_FOK (Fill or Kill) Order is executed only if the full volume can be filled immediately; otherwise rejected. Any other value → ORDER_FILLING_BOC Order is canceled if it cannot be placed immediately (broker-specific behavior).

This setting has a significant impact on trading lot calculations and overall trade execution, so it must be configured correctly.

4. `pip_min_scan` and `pip_max_scan` define the acceptable price movement range for a valid pattern. The minimum filters out small, insignificant moves, while the maximum excludes abnormal spikes or news-driven volatility. If users are unsure where to start, both values can be referenced from the **Data Management** section on the web, which provides typical movement ranges for each instrument.

Name	Description
`candle_count`	Defines how many past candles are used to scan for patterns. Represents a time window, depending on the chart timeframe Example: H1 × 25 ≈ 1 day, M15 × 25 ≈ 6 hours ● Higher value → broader market view ● Lower value → shorter-term focus
`pip_min_scan`	Minimum price movement (in pips) required for a move to be considered a valid pattern. Filters out tiny, meaningless fluctuations Prevents noise from being treated as signal
`pip_max_scan`	Maximum price movement (in pips) allowed for a pattern. Excludes abnormal spikes or news-driven moves Keeps pattern size within expected market behavior
`min_pattern_occurence`	Sets how many times a pattern must appear before the system is allowed to trade it. The system waits and observes the pattern until this count is reached. Example: `min_pattern_occurence = 3` ● Pattern appears 1st time → no trade ● Pattern appears 2nd time → no trade ● Pattern appears 3rd time → trade is allowed
`min_confidence`	Minimum confidence score (percentage) required to allow a trade. Represents pattern reliability based on historical outcomes Values below this are ignored completely
`min_winrate`	Minimum historical win rate (percentage) required for execution. 100 means only perfect historical patterns are allowed Extremely strict → very few trades, maximum filtering

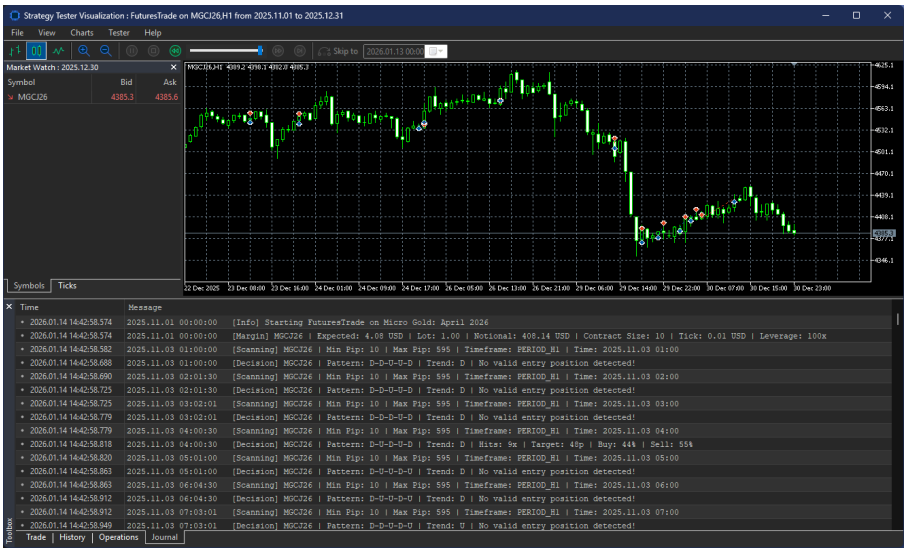
5. The rest of the settings are money-management related, so feel free to try them out and fine-tune as needed.

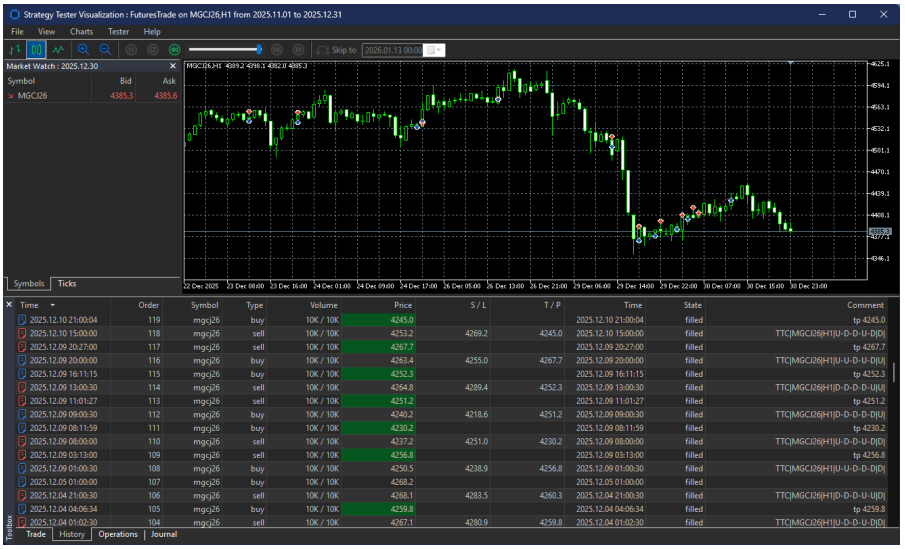
Name	Description
`stop_loss_ratio`	Defines how far the stop loss is placed relative to the entry logic. A higher value means a wider stop loss, giving the trade more room but increasing risk per trade.
`volume_digit`	Controls the rounding precision of the calculated trade volume (lot size). A value of 2 rounds the volume to 2 decimal places (e.g. 0.013 → 0.01, 1.256 → 1.26).
`allocated_margin_rate`	The portion of available margin that can be allocated to open trades. A value of 0.25 means 25% of available margin is allowed to be used.
`locked_margin_rate`	The portion of margin reserved and not used for new trades. A value of 0.75 keeps 75% of margin locked as a safety buffer.
`max_margin`	Sets the maximum margin allowed for a single position. ● 0 → no limit ● Any positive value → limits how much margin one trade can use Note: The actual margin required per position is affected by account leverage, so different leverage settings will change how this limit behaves.
`allow_swing`	Controls whether swing trades (longer holding duration) are allowed. ● false → only short-term / intraday-style trades ● true → swing trades are permitted

6. The final Strategy Tester configuration is as follows:

Variable	Value
access_key	m87gp-oxpxc-nbi8h-gtgqz
learning_mode	false
contract_size_multiplier	10
candle_count	25
pip_min_scan	10
pip_max_scan	595
min_pattern_occurence	3
min_confidence	65
min_winrate	75
stop_loss_ratio	2
volume_digit	1
allocated_margin_rate	0.75
locked_margin_rate	0.25
max_margin	0.0
price_in_cent	true
allow_swing	false
filling_type	1
broadcast_signal	false

7. Hit the Start button and you will see the trading is happening on the backtest. You might need to repeat this several times so the decision will come out better

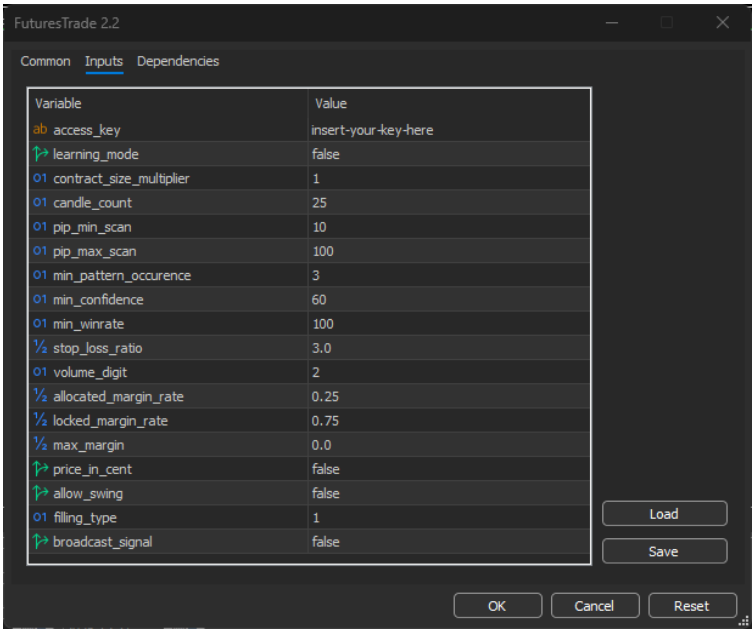




4.0 Live Trade Setup

To enable live trading, simply drag and drop the FuturesTrade Expert Advisor onto any chart that the bot has already been trained on.

When prompted, configure the settings exactly as tested previously. The bot will continue training even while operating in live trading mode.



Click OK, and the bot will immediately begin executing trades.

Note: The DLL setup described earlier in this document also applies to this step and must be completed beforehand.