

EA Logic Rules for MT5

1. Instrument and Timeframe:

- Instrument: US30.
- Active timeframe for logic: M15.
- Trading time: Between 16:45 and 19:00 broker time.
- Maximum number of trades per day – default 16

2. ATR Calculation:

- Use ATR of M15 candles during the trading window.
- ATR value should be taken at candle close for everything

3. Pending Order Placement:

- Place a **Buy Stop** and a **Sell Stop** at a distance of $X * \text{ATR}$ from the current candle open price.
- Default: $X = 0.25$ (user-adjustable input).
- No changes to the pending orders mid-candle.

4. Stop Loss (SL) and Take Profit (TP):

- **SL:**
 - Set at the level of the opposite pending order.
- **TP:**
 - TP1: $1 * \text{ATR}$ (close 70% of the position).
 - TP2: $1.5 * \text{ATR}$ (close the remaining 30% of the position).

5. Trailing Stop (TS):

- If TS is enabled, trail the stop at $0.5 * \text{ATR}$ (user-adjustable via a dropdown).

6. Order Management:

- Pending orders:
 - Remain active until:
 - Triggered, or
 - Candle closes.
- At candle close:
 - If no order is triggered, delete all pending orders.

- Recalculate ATR and place new Buy Stop and Sell Stop for the next candle.
- Triggered orders:
 - Do not delete the opposite pending order unless the candle closes.
- Open trades:
 - Close at TP, SL, or at candle close if neither is hit.

7. **Lot Sizing:**

- Lot size is calculated based on a risk percentage of the account balance.
 - Default: 2% risk (user-adjustable input).

8. **ATR Calculation Frequency:**

- ATR is calculated only once at the close of each M15 candle.

9. **Inputs:**

- ATR multiplier for pending orders (X, default = 0.25).
- ATR multiplier for SL/TP.
- TP1 and TP2 multipliers (e.g., 1 ATR and 1.5 ATR).
- Trailing Stop multiplier (default = 0.5 ATR).
- Risk percentage (default = 2%).

- Ensure all positions and orders are properly managed and closed by the end of the trading session at 19:00 broker time.

- Can you add an option to use round number or normal for SL TP trail
- It's 39.5 but round it to 40 this should be as an option
- I want the EA to stop trading at XX:XX hour and all trade should be deleted by that time also