

# Hover Breakout Optimization

## Default Parameters

Lookback: 6  
Range Threshold (pips): 40  
Stop Loss (pips): 9  
Take Profit (pips): 30  
Hold Period (bars): 12  
Spread (pips): 2  
Risk Per Trade: 0.01  
Initial Equity: 10000.0

## Parameter Grid Tested

Lookback: [4, 8, 12]  
Range Threshold (pips): [20, 60, 100]  
Stop Loss (pips): [5, 10, 20]  
Take Profit (pips): [20, 40, 80]  
Hold Period (bars): [6, 12, 24]  
Risk Per Trade: [0.01, 0.03, 0.05]

## Top 10 Results

- 1) Final Equity: 16730.00, Max DD: -21.55%, Expectancy: 1.41%  
Lookback: 8, Range Threshold (pips): 20, Stop Loss (pips): 10, Take Profit (pips): 40, Hold Period (bars): 12, Spread (pips): 2, Risk Per Trade: 0.05, Initial Equity: 10000.0
- 2) Final Equity: 16555.00, Max DD: -9.32%, Expectancy: 3.55%  
Lookback: 12, Range Threshold (pips): 20, Stop Loss (pips): 10, Take Profit (pips): 40, Hold Period (bars): 12, Spread (pips): 2, Risk Per Trade: 0.05, Initial Equity: 10000.0
- 3) Final Equity: 15855.00, Max DD: -22.52%, Expectancy: 1.30%  
Lookback: 8, Range Threshold (pips): 20, Stop Loss (pips): 10, Take Profit (pips): 80, Hold Period (bars): 12, Spread (pips): 2, Risk Per Trade: 0.05, Initial Equity: 10000.0
- 4) Final Equity: 15580.00, Max DD: -12.37%, Expectancy: 3.18%  
Lookback: 12, Range Threshold (pips): 20, Stop Loss (pips): 10, Take Profit (pips): 40, Hold Period (bars): 24, Spread (pips): 2, Risk Per Trade: 0.05, Initial Equity: 10000.0
- 5) Final Equity: 15285.00, Max DD: -15.18%, Expectancy: 3.04%  
Lookback: 12, Range Threshold (pips): 20, Stop Loss (pips): 10, Take Profit (pips): 80, Hold Period (bars): 12, Spread (pips): 2, Risk Per Trade: 0.05, Initial Equity: 10000.0
- 6) Final Equity: 14890.00, Max DD: -25.30%, Expectancy: 3.49%  
Lookback: 12, Range Threshold (pips): 20, Stop Loss (pips): 5, Take Profit (pips): 40, Hold Period (bars): 12, Spread (pips): 2, Risk Per Trade: 0.05, Initial Equity: 10000.0
- 7) Final Equity: 14285.00, Max DD: -26.78%, Expectancy: 1.08%  
Lookback: 8, Range Threshold (pips): 20, Stop Loss (pips): 10, Take Profit (pips): 40, Hold Period (bars): 24, Spread (pips): 2, Risk Per Trade: 0.05, Initial Equity: 10000.0

8) Final Equity: 14038.00, Max DD: -16.22%, Expectancy: 0.89%  
Lookback: 8, Range Threshold (pips): 20, Stop Loss (pips): 10, Take Profit (pips): 40, Hold Period (bars): 12, Spread (pips): 2, Risk Per Trade: 0.03, Initial Equity: 10000.0

9) Final Equity: 13933.00, Max DD: -6.77%, Expectancy: 2.25%  
Lookback: 12, Range Threshold (pips): 20, Stop Loss (pips): 10, Take Profit (pips): 40, Hold Period (bars): 12, Spread (pips): 2, Risk Per Trade: 0.03, Initial Equity: 10000.0

10) Final Equity: 13900.00, Max DD: -25.30%, Expectancy: 3.06%  
Lookback: 12, Range Threshold (pips): 20, Stop Loss (pips): 5, Take Profit (pips): 40, Hold Period (bars): 24, Spread (pips): 2, Risk Per Trade: 0.05, Initial Equity: 10000.0