Bollinger Dynamic Performance Report (EA)

Introduction

The Bollinger Dynamic EA is a trading algorithm designed to operate on the MetaTrader 5 (MT5) platform. This EA is based on a combination of Bollinger Bands and the Relative Strength Index (RSI) to determine optimal trade entries. It operates on the H4 timeframe but can be adapted to different timeframes if required. The EA is compatible with multiple currency pairs, including EUR/USD and AUD/USD, and employs dynamic risk management for consistent performance.

Strategy

This EA employs two key technical indicators to generate trade signals. The Bollinger Bands (20, 2.0) are used to identify overbought and oversold market conditions, while the RSI (14) is used to confirm the strength of momentum. The EA follows a straightforward set of trade rules: a buy trade is executed when the price touches the lower Bollinger Band and the RSI is below 30, indicating an oversold condition. Conversely, a sell trade is executed when the price touches the upper Bollinger Band and the RSI is above 70, signaling an overbought market. If the price is near the middle band, no trades are initiated to avoid uncertain market conditions.
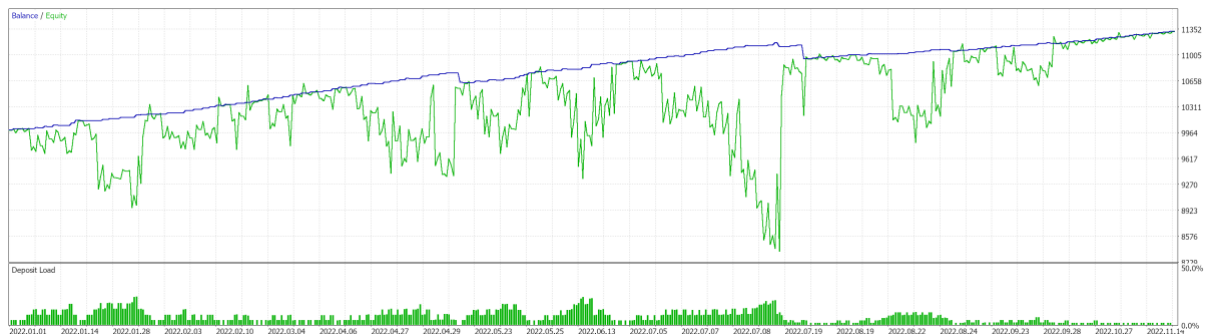
Risk Management

The EA uses a fixed lot size strategy, with an initial lot size of 0.5 per trade. However, risk control is enhanced through a drawdown-based lot reduction system. The EA continuously monitors account equity relative to the initial balance and reduces the lot size when a drawdown of 10% is reached. Specifically, if equity falls below 90% of the initial balance, the lot size is reduced by 50%. This mechanism helps prevent deeper losses while allowing recovery. The EA does not use a stop-loss but employs a fixed Take Profit of 50 pips, which can be customized based on market conditions.

Backtest Performance Summary

(EURUSD 2022-01-01:2022-12-31)

✓ Bars	1548	Ticks	6151
✓ Initial Deposit	10 000.00		
✓ Total Net Profit	1 323.19	Balance Drawdown Absolute	1.25
✓ Gross Profit	1 876.68	Balance Drawdown Maximal	218.17 (1.95%)
✓ Gross Loss	-553.49	Balance Drawdown Relative	1.95% (218.17)
✓			
✓ Profit Factor	3.39	Expected Payoff	9.38
✓ Recovery Factor	0.52	Sharpe Ratio	0.41
✓ AHPR	1.0009 (0.09%)	LR Correlation	0.96
✓ GHPR	1.0009 (0.09%)	LR Standard Error	104.23
✓			
✓ Total Trades	141	Short Trades (won %)	45 (100.00%)
✓ Total Deals	282	Profit Trades (% of total)	132 (93.62%)
✓	Largest	profit trade	22.67
✓	Average	profit trade	14.22
✓	Maximum	consecutive wins ($)	48 (783.31)
✓	Maximal	consecutive profit (count)	783.31 (48)
✓	Average	consecutive wins	17
✓			

Symbols	1
Equity Drawdown Absolute	1 623.77
Equity Drawdown Maximal	2 565.04 (23.44%)
Equity Drawdown Relative	23.44% (2 565.04)
Margin Level	431.59%
Z-Score	-1.70 (91.09%)
OnTester result	0
Long Trades (won %)	96 (90.62%)
Loss Trades (% of total)	9 (6.38%)
loss trade	-182.24
loss trade	-45.57
consecutive losses ($)	3 (-21.59)
consecutive loss (count)	-182.24 (1)
consecutive losses	1

Backtest Performance Summary

(GBPCHF 2022-01-01:2022-12-31)

✓ Bars	1548	Ticks	6144
✓ Initial Deposit	10 000.00		
✓ Total Net Profit	1 176.36	Balance Drawdown Absolute	15.47
✓ Gross Profit	1 544.46	Balance Drawdown Maximal	154.35 (1.47%)
✓ Gross Loss	-368.10	Balance Drawdown Relative	1.47% (154.35)
✓			
✓ Profit Factor	4.20	Expected Payoff	8.91
✓ Recovery Factor	0.73	Sharpe Ratio	0.95
✓ AHPR	1.0008 (0.08%)	LR Correlation	0.99
✓ GHPR	1.0008 (0.08%)	LR Standard Error	38.00
✓			
✓ Total Trades	132	Short Trades (won %)	52 (82.69%)
✓ Total Deals	264	Profit Trades (% of total)	123 (93.18%)
✓	Largest	profit trade	20.33
✓	Average	profit trade	12.56
✓	Maximum	consecutive wins ($)	67 (680.07)
✓	Maximal	consecutive profit (count)	680.07 (67)
✓	Average	consecutive wins	21

Symbols	1
Equity Drawdown Absolute	1 097.68
Equity Drawdown Maximal	1 616.20 (15.37%)
Equity Drawdown Relative	15.37% (1 616.20)
Margin Level	362.17%
Z-Score	-3.71 (99.74%)
OnTester result	0
Long Trades (won %)	80 (100.00%)
Loss Trades (% of total)	9 (6.82%)
loss trade	-76.88
loss trade	-28.63
consecutive losses ($)	3 (-69.81)
consecutive loss (count)	-153.72 (2)
consecutive losses	2