

GOLDEN POCKET EA BY PRICEWERK

User Manual for MetaTrader 5

Manual v1.0 - Covers EA code version 1.13 - As of May 16, 2026 - Language: English

Short description: Golden Pocket EA by Pricewerk is a MetaTrader 5 Expert Advisor based on the Pricewerk Golden Pocket / ATR Fibonacci Trend Envelopes model. It detects trend by ATR-band breakout, waits for a defined pullback sequence, executes either a 0.5 stop-reclaim setup or a market touch setup after the 0.5 line has been crossed, and manages risk through fixed-lot or percent-risk sizing, stop loss at the 1.0 level, fixed-RR or opposite-band take profit, optional partial close, break-even and three trailing-stop models.

01 - Core Idea

The EA is designed as a rule-based pullback trend-following system, not a simple moving-average robot. A confirmed ATR-band breakout creates the trend state. After that, the EA waits for price to interact with the Fibonacci pullback structure before it can enter. The core intent is to avoid blind entries and require a clear sequence inside the trend envelope.

- Trend is confirmed by close crossing the ATR envelope upper or lower band.
- The active trend state is persistent until an opposite band break occurs.
- Fib 0.5, 0.618 and 0.786 are recalculated from the current trend band.
- The 1.0 level acts as the structural stop-loss reference.
- Entry logic can use a 0.5 stop-reclaim order or a market touch inside the Golden Pocket after the 0.5 line has been crossed.
- The EA manages only positions and orders matching its symbol and MagicNumber.

02 - Quick Start

- 1 Copy **Pricewerk-Golden_Pocket_EA.mq5** into the MetaTrader 5 **MQL5/Experts** folder and compile it in MetaEditor.
- 2 Attach the EA to the desired symbol and timeframe in a demo or strategy-tester environment first.
- 3 Start with the default calculation model: RMA 100, ATR 100 and ATR multiplier 3.0.
- 4 Choose the entry mode. The default is **ENTRY_SEQUENCE_STOP_05_AFTER_0618**. For direct market touch entries, select **ENTRY_MARKET_TOUCH_AFTER_05** and choose the touch target.
- 5 Set risk mode, lot size or risk percent, minimum stop size and spread filter before enabling live AutoTrading.
- 6 Use the dashboard to confirm trend, pocket status, spread, open position, pending order, trailing mode, partial close and setup status.

03 - Calculation Model

The EA calculates the same ATR Fibonacci envelope used by the Pricewerk Golden Pocket indicator. A selectable moving average of Close forms the basis line. Wilder/RMA-smoothed ATR defines a volatility channel. UpperBand and LowerBand are calculated from the basis plus or minus ATR multiplied by ATR_Multiplier.

Component	Formula / behavior	Trading role
Basis	MovingAverage(Close, MA_Length, MA_Type)	Central line used to position the ATR envelope.

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Component	Formula / behavior	Trading role
ATR	Wilder/RMA-smoothed True Range	Volatility estimate used for channel width.
Upper / Lower Band	Basis +/- ATR * ATR_Multiplier	Trend breakout thresholds and Fibonacci source levels.
Trend	1 bullish, -1 bearish, 0 neutral	Persistent regime state; new trades require active trend.
Level 1.0	LowerBand in bullish trend, UpperBand in bearish trend	Stop-loss reference and setup invalidation boundary.
Golden Pocket	Between Fib 0.618 and Fib 0.786	Main pullback area for market-touch entries and visual context.

04 - Entry Logic

The EA has two entry modes. Both are sequence-based. The key protection is that the market must first pass through the 0.5 level before the deeper entry condition is allowed to trigger.

Entry mode	Sequence	Execution
ENTRY_SEQUENCE_STOP_05_AFTER_0618	Price first crosses 0.5, then reaches 0.618. After that, the EA places a stop order at 0.5.	Buy Stop in bullish trend, Sell Stop in bearish trend.
ENTRY_MARKET_TOUCH_AFTER_05	Price first crosses 0.5, then touches the selected MarketTouchLevel: 0.618, 0.786 or the zone between 0.618 and 0.786.	Immediate market order at current execution price.

For bullish setups, price must move down through 0.5 before a Golden Pocket touch is valid. For bearish setups, price must move up through 0.5 before a touch is valid. If price reaches the 1.0 level before entry, the setup is invalidated.

05 - Stop Loss, Take Profit and Risk

The stop loss is anchored to the trend 1.0 level with an optional buffer. Take profit can be fixed-RR, opposite band or disabled. Position size can be fixed lot or calculated from account balance/equity and the entry-to-stop distance.

Item	Long	Short
Stop loss	Level100 - buffer	Level100 + buffer
Fixed RR TP	Entry + risk * RiskReward	Entry - risk * RiskReward
Opposite-band TP	UpperBand	LowerBand
Risk check	SL must be below entry and at least MinSLPoints away.	SL must be above entry and at least MinSLPoints away.

06 - Trade Management

The EA manages active positions before looking for new setups. This order matters: existing exposure is protected first, then pending orders are checked, then new trade filters and entries are evaluated.

- 1 Update the ATR Fibonacci model and persistent trend state.
- 2 Manage existing positions with optional break-even, partial close and trailing stop.
- 3 Manage pending orders, including trend-change deletion, expiration and Level100 invalidation.
- 4 Apply new-trade filters such as spread, session and HTF trend.
- 5 If there is no managed open position or pending order, evaluate the selected entry sequence.

07 - Trailing Models

Trailing mode	Logic	Best use
TRAIL_NONE	No trailing stop. SL remains controlled by initial stop, break-even and manual broker events.	Baseline testing and clean strategy comparison.

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Trailing mode	Logic	Best use
TRAIL_ATR	Long: Close or Low minus ATR * multiplier. Short: Close or High plus ATR * multiplier.	Volatility-aware trend following.
TRAIL_STRUCTURE	Uses the last confirmed swing low/high with a buffer.	Market-structure based management after pullbacks.
TRAIL_CANDLE	Uses previous candle extreme or N-candle high/low with a buffer.	Tighter candle-by-candle trade management.

08 - Complete Settings

Complete input reference for the current EA code. Defaults reflect version 1.13.

01 - Calculation

Core ATR Fibonacci model settings.

Parameter	Default / options	What it does	Practical use
MA_Type	SMA, EMA, WMA, HMA, RMA. Default: RMA	Moving average type for the basis line.	RMA is closest to the original TradingView-style smoothing.
MA_Length	Default: 100	Length of the basis moving average.	Higher values smooth the trend channel.
ATR_Length	Default: 100	Length of Wilder/RMA ATR.	Controls volatility channel smoothness.
ATR_Multiplier	Default: 3.0	ATR multiplier for upper/lower bands.	Higher values create wider, less frequently crossed bands.
UseClosedBarOnly	Default: true	Confirms trend changes on closed candles.	Recommended for EA logic to reduce intra-bar trend flicker.

02 - Entry

Sequence and entry execution settings.

Parameter	Default / options	What it does	Practical use
EntryMode	Default: ENTRY_SEQUENCE_STOP_05_AFTER_0618	Selects stop-reclaim or market-touch entry logic.	Use market touch when testing direct Golden Pocket entries.
MarketTouchLevel	Default: TOUCH_FIB_0618	Target for market-touch mode: 0.618, 0.786 or Golden Pocket zone.	Used only when EntryMode is ENTRY_MARKET_TOUCH_AFTER_05.
AllowOneTradePerTrend	Default: true	Limits the EA to one trade per trend state unless re-entry is explicitly enabled.	Recommended for clean trend-cycle testing.
AllowReEntryAfterSL	Default: false	Allows a new setup after a stop-loss exit in the same trend.	Enable only when intentionally testing multiple attempts.
AllowReEntryAfterTP	Default: false	Allows a new setup after a take-profit exit in the same trend.	Enable for continuation/retest testing.
PendingExpiryBars	Default: 20	Expiry in bars for pending stop orders.	Used by the stop-reclaim entry mode.

03 - Risk

Lot sizing, stop buffer and take-profit configuration.

Parameter	Default / options	What it does	Practical use
RiskMode	Default: RISK_PERCENT	Fixed lot or risk-percent position sizing.	Risk-percent mode adapts to stop distance.
FixedLot	Default: 0.10	Fixed volume when RiskMode is FIXED_LOT.	Useful for controlled tester experiments.
RiskPercent	Default: 1.0	Percent of balance/equity risked per trade.	Always validate broker tick value and symbol behavior in tester.
RiskBase	Default: EQUITY	Uses account equity or balance for risk calculation.	Equity is more conservative during floating drawdown.

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Parameter	Default / options	What it does	Practical use
MinSLPoints	Default: 100	Minimum allowed entry-to-SL distance.	Prevents structurally tiny invalid stops.
SL_Buffer_Mode	Default: BUFFER_POINTS	No buffer, fixed points or ATR-based buffer.	Buffer protects the Level100 stop from exact-touch noise.
SL_Buffer_Points	Default: 50	Fixed point buffer added beyond Level100.	Relevant when SL_Buffer_Mode is BUFFER_POINTS.
SL_Buffer_ATR_Multiplier	Default: 0.1	ATR-based stop buffer.	Relevant when SL_Buffer_Mode is BUFFER_ATR.
RiskReward	Default: 2.0	RR multiplier for fixed-RR TP.	Only used when TP_Mode is FIXED_RR.
TP_Mode	Default: FIXED_RR	FIXED_RR, OPPOSITE_BAND or TP_NONE.	Choose TP_NONE only when trailing/management should handle exits.

04 - Trailing

Optional post-entry stop management.

Parameter	Default / options	What it does	Practical use
TrailingMode	Default: TRAIL_NONE	None, ATR, structure or candle trailing.	Turn on only after baseline entry tests are understood.
TrailingStartMode	Default: START_AFTER_R_MULTIPLE	Immediate, after R multiple or after TP-distance percent.	Controls when trailing begins.
TrailStartR	Default: 1.0	R multiple needed to start trailing.	Common setting: start after price reaches 1R.
TrailStartTPPercent	Default: 50.0	Percent of TP distance needed to start trailing.	Used when start mode is TP-distance percent.
TrailStepPoints	Default: 50	Minimum improvement step for SL update.	Reduces frequent tiny stop modifications.
TrailATRLength	Default: 14	ATR length for ATR trailing.	Shorter than model ATR by default.
TrailATRMultiplier	Default: 2.0	ATR trailing distance multiplier.	Higher values trail more loosely.
ATRTrailSource	Default: ATR_TRAIL_CLOSE	Uses Close or High/Low as trailing base.	High/Low mode is usually tighter.
StructureLookbackLeft / Right	Default: 2 / 2	Swing confirmation windows.	Right bars prevent unconfirmed swing use.
StructureBufferPoints	Default: 20	Buffer beyond swing high/low.	Avoids setting SL exactly on structure.
StructureMinMovePoints	Default: 50	Minimum move required for structure SL update.	Prevents tiny structural adjustments.
CandleTrailMode	Default: PREVIOUS_CANDLE_EXTREME	Previous candle or N-candle extreme.	N-candle mode smooths the trailing reference.
CandleTrailBars	Default: 1	Number of candles for N-candle mode.	Used only in N_CANDLE_EXTREME mode.
CandleBufferPoints	Default: 20	Buffer beyond candle extreme.	Avoids exact-high/low stop placement.
UseClosedBarForTrailing	Default: true	Updates trailing from closed candles.	Recommended to avoid intra-bar trailing noise.

05 - BreakEven and Partial Close

Optional profit protection and scaling.

Parameter	Default / options	What it does	Practical use
UseBreakEven	Default: true	Moves SL to break-even plus offset after a defined R gain.	Good baseline protection after trade moves in favor.
BreakEvenAtR	Default: 1.0	Profit threshold in R for break-even.	1R is the default trigger.
BreakEvenOffsetPoints	Default: 10	Offset beyond entry when moving to break-even.	Covers a small amount of spread/noise.

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Parameter	Default / options	What it does	Practical use
BreakEvenBeforeTrailing	Default: true	Applies break-even before trailing logic.	Keeps protection hierarchy simple.
UsePartialClose	Default: false	Enables partial position close in profit.	Useful for scaling out while leaving a runner.
PartialCloseAtR	Default: 1.0	R multiple that triggers partial close.	Common first scale-out location.
PartialClosePercent	Default: 50.0	Percent of current volume to close.	Volume is normalized to broker step.
PartialCloseMoveSLToBreakEven	Default: false	Moves remaining SL to break-even after partial close.	Optional protection after scale-out.

06 - Filters

Controls whether new trades are allowed. Existing positions are still managed.

Parameter	Default / options	What it does	Practical use
UseSpreadFilter	Default: true	Blocks new entries when spread is too high.	Important for gold, indices, news and low-liquidity sessions.
MaxSpreadPoints	Default: 30	Maximum allowed spread in points.	Tune per symbol and broker.
UseSessionFilter	Default: false	Allows new trades only within a time window.	Existing positions continue to be managed outside the session.
SessionStart / SessionEnd	Default: 08:00 / 22:00	Allowed entry session in terminal time.	Supports sessions crossing midnight.
UseHTFTrendFilter	Default: false	Requires higher-timeframe trend alignment.	Longs need HTF BULL; shorts need HTF BEAR.
HTF_Timeframe	Default: PERIOD_H1	Higher timeframe used for the trend filter.	Choose a timeframe above the trading chart.

07 - Trade Management

Identity and exposure limits.

Parameter	Default / options	What it does	Practical use
MagicNumber	Default: 618786	Unique identifier for EA orders and positions.	Use a unique magic per strategy/symbol setup.
OrderComment	Default: Golden Pocket EA	Comment appended to orders.	Helps journal and broker-history review.
MaxOpenPositionsPerSymbol	Default: 1	Maximum managed open positions for this symbol.	Set to 1 for simplest testing.
MaxPendingOrdersPerSymbol	Default: 1	Maximum managed pending orders for this symbol.	Used by the stop-reclaim entry mode.

08 - Visual, Alert, Performance and Debug

Chart display, alerting and runtime behavior.

Parameter	Default / options	What it does	Practical use
ShowChartLevels / ShowGoldenPocket	Default: true / true	Shows indicator-style levels and zone on the chart.	Disable for faster optimization runs.
ShowEntrySLTP	Default: true	Shows setup, pending order and position lines.	Useful during visual backtests.
ShowDashboard	Default: true	Shows symbol, trend, entry mode, pocket, spread and status.	Main operational status panel.
ApplyReferenceChartStyle	Default: true	Applies Pricewerk chart colors.	Disable if using your own template.
VisualHistoryBars	Default: 120	Requested historical visual depth.	FAST mode uses no historical fill; FULL draws more.

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Parameter	Default / options	What it does	Practical use
ShowTrendChangeMarkers	Default: true	Shows trend-change markers.	Useful for visual verification.
ShowProjections	Default: true	Shows right-side projections unless VisualPerformanceMode is FAST.	FAST mode intentionally disables projections.
ProjectionLengthBars	Default: 50	Bars projected into the future.	Only used when projections are active.
ProjectionUpdateOnNewBarOnly	Default: true	Updates projections only on new candles.	Prevents future-area flicker.
PocketTransparency	Default: 72	Visual transparency of the Golden Pocket zone.	Increase for lighter fill.
DashboardCorner / X / Y / Font	Default: right lower / 14 / 18 / 9	Dashboard placement and size.	Move if it overlaps chart content.
EnableLevelAlerts	Default: false	Enables alerts for Fib 0.5, 0.618, 0.786 and 1.0.	Alert delivery uses MT5 popup, sound, push or email settings.
VisualPerformanceMode	Default: VISUAL_BALANCED	FAST, BALANCED or FULL visual behavior.	FAST is best for tester speed; FULL is for visual review.
ModelHistoryBars	Default: 900	Bars copied for model calculation.	Raise only if needed for long smoothing/warmup.
VisualUpdateSeconds / DashboardUpdateSeconds	Default: 2 / 2	Object and dashboard update throttling.	Higher values reduce live-chart load.
DebugMode	Default: false	Prints extra diagnostic information.	Enable only while testing or troubleshooting.

09 - Dashboard Interpretation

Dashboard line	Meaning
Trend	Current EA trend state: BULL, BEAR or NEUTRAL.
Entry	Selected entry mode and target, for example 0.5 Stop after 0.618 or Market 0.618 after 0.5.
Pocket	Whether the current market reference price is inside the active 0.618-0.786 pocket.
Spread	Current spread in points, colored if it exceeds MaxSpreadPoints.
Open position	Whether the EA currently manages an open position on this symbol and MagicNumber.
Pending order	Whether the EA currently manages a pending stop order.
Trailing	Current trailing mode.
Risk	Configured fixed lot or percent risk model.
Partial	Partial-close state and trigger.
Status	Latest setup state, such as Waiting for 0.5 break, Pending order placed, In trade or Spread too high.

10 - Backtesting Workflow

- 1 First test with visuals disabled or VisualPerformanceMode = FAST to evaluate raw strategy behavior.
- 2 Then run selected trades in visual mode with ShowChartLevels, ShowGoldenPocket and ShowEntrySLTP enabled.
- 3 Check that entries occur only after the required 0.5 sequence has happened.
- 4 Compare results with and without break-even, partial close and each trailing mode.
- 5 Tune spread, session and HTF filters only after the baseline model behavior is understood.
- 6 Use separate MagicNumbers for different optimization sets to avoid mixing results in live or forward testing.

11 - Troubleshooting

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Issue	What to check
No trades	Trend may be neutral, spread/session/HTF filters may block entries, or the 0.5 sequence has not occurred.
Market touch enters later than expected	Market mode requires first crossing 0.5, then touching the selected 0.618/0.786/pocket target.
Stop order not placed	Check broker stop distance, MaxPendingOrdersPerSymbol, MinSLPoints and whether price already invalidated at Level100.
Lot size is zero	Risk percent, stop distance, tick value or broker volume step may make the calculated volume invalid.
Position not trailing	TrailingMode may be TRAIL_NONE, start condition may not be reached, or broker freeze/stop distance may block modification.
Partial close skipped	Broker volume step/minimum may make the partial volume too small.
Chart is slow	Use VisualPerformanceMode = FAST, disable visual levels/dashboard during optimization, or raise update seconds.
Projection missing	In FAST mode projections are intentionally disabled for performance.
EA modifies wrong trades	It should only manage matching symbol and MagicNumber. Verify MagicNumber is unique for this strategy.

12 - Risk Notice

This Expert Advisor is a trading automation tool and can open, modify and close live trades when AutoTrading is enabled. It does not guarantee profits and can generate losses, including losses larger than expected during gaps, high spread, slippage, symbol-specific execution constraints or broker-side rejection of stop modifications.

Always test in the MetaTrader Strategy Tester and on a demo account before using live capital. Validate every symbol, timeframe, spread model, commission model, session and broker contract specification independently.