

ValeriaZen V4.5

Configuration Guide — Multi-Pair Mean Reversion Grid EA

ValeriaZen is a portfolio mean reversion grid trading EA for MetaTrader 5. It manages up to ten currency pairs simultaneously from a single M15 chart: USDJPY, AUDCAD, EURGBP, CHFJPY, EURCAD, EURAUD, EURJPY, and GBPUSD, EURUSD, and NZDCAD. Each pair has individually optimized entry parameters built into the EA.

Attach the EA to any M15 chart — the chart symbol does not matter. The EA trades all enabled pairs independently. This guide follows the same order as the parameter groups in the EA settings panel.

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Getting Started

For most users, only four settings need attention: Grid Strategy, Grid Risk, Lot Sizing, and the Equity Stop. Everything else is pre-optimized.

1. **Grid Strategy** — Choose Smart Lot Scaling (default, recommended) for the full engine, or Fixed Lot Grid for a simpler, lower-risk setup.
2. **Grid Risk** — Sets how many grids can run at once. Medium (default) is a balanced starting point.
3. **Lot Sizing** — Auto Lot (default) scales with your balance. Pick a Risk Level.
4. **Equity Stop** — Default 30% per grid. The safety backstop.

Grid Strategy

The most important setting. It determines the overall risk/reward profile.

Parameter	Default	Description
Grid Strategy	Smart	Fixed Lot Grid Smart Lot Scaling Manual Settings
Grid Risk	Medium	Manual Low Medium High Very High
Max Same Curr Dir	1	Manual mode only: max same-direction grids per currency
Manual Max Grids	5	Manual mode only: max total active grids

- **Fixed Lot Grid** — All positions use the same lot size. Velocity engine off. Simplest, most predictable. Lower profit, lower risk. Best for beginners.
- **Smart Lot Scaling (default)** — Per-pair lot multipliers plus the velocity engine with distance-scaled lots and dynamic spacing. Higher profit with controlled risk.
- **Manual Settings** — Advanced. The EA reads the per-pair inputs directly. Defaults are pre-populated with the Fixed Lot Grid values as a safe starting point — switch to Manual, then adjust individual pairs (TP, spacing, lot multiplier, hedge) yourself.

Grid Risk (new in V4.3)

A single tier that controls total exposure — replacing the older separate 'max same currency' and 'max open grids' settings. It caps both how many grids can share a currency direction and how many grids run in total.

Tier	Same Currency / Direction	Max Active Grids
Manual	user-defined	user-defined
Low	1	3
Medium (default)	1	5
High	2	8
Very High	unlimited	20 (all pairs, both slots)

Grid Risk is leverage-agnostic — it limits exposure by grid count and currency concentration, which matters on any account regardless of leverage.

Lot Sizing

Determines the base position size for grid level 1. Applies to all pairs equally.

Parameter	Default	Description
Lot Mode	Auto	Fixed (user-defined) Auto (balance-based)
Fixed Lot	0.01	Fixed mode: exact lot per L1 position
Risk Level	Low	Auto mode tier (see table below)
Max Lot Initial	0.10	Caps the L1 lot from Auto calculation
Max Lot Grid	0.50	Caps each L2+ grid add — prevents runaway escalation

Auto Lot (default) — Calculates lot from account balance:

Risk Level	Lot / €10,000	Suitable For
Low	0.01	Beginners, conservative
Medium	0.02	Moderate risk tolerance
High	0.05	Experienced traders
Extreme	0.10	Aggressive (not recommended)

Start with Low and observe for 2–3 months before increasing risk.

Two-tier lot cap (new in V4.4) — Max Lot Initial caps the starting lot; Max Lot Grid caps each subsequent grid add. Together they let the grid escalate naturally up to a ceiling, then flatten — preventing the deep-grid lot explosion that could otherwise cause a stop-out.

BaseLot Freeze — The L1 lot is frozen when a grid opens and used as the base for all adds, so the lot curve stays stable even as equity changes during the grid's life.

Grid Take Profit

Swap-Aware TP

Overnight swap fees accumulate on longer-running grids. The Swap-Aware TP adjusts the take-profit target to account for these costs. One global setting for all pairs (V4.5 — previously per pair).

- **Off** — Swap ignored in the TP calculation.
- **Cover Costs (default)** — Only negative swap (a cost) raises the TP. The grid must earn enough to compensate overnight fees before closing. Positive swap credit is ignored.
- **Full Adjustment** — Both directions. Negative swap raises the TP, positive swap lowers it (grid closes sooner).
- **Full Adjustment** — Limits how far swap may shift the TP, as a percentage of the base TP (default 30%). On deep, long-running grids the accumulated swap could otherwise push the target further and further out, keeping the grid open longer and making it deeper still. Set to 0 to disable the cap.

Safety & Risk Protection

ValeriaZen uses a layered protection system. Each layer operates independently and targets a different risk. This is the area with the most changes since V4.2.

Equity Protection

Parameter	Default	Description
Equity Stop Mode	Percent	Percent (% of grid start equity) Currency (absolute)
Equity Stop Value	30.0	Close a grid when its loss exceeds this (% or currency)
Equity TP Value	0.0	Close a grid in profit at this level (0 = off)
Account DD Stop	50.0	Close ALL grids when account drawdown from peak exceeds % (0=off)
Account DD Cooldown	60	Minutes to pause new entries after an Account DD Stop

Grid Equity Stop — The hard backstop for a single grid. New in V4.4, it is trim-safe: it measures the grid's floating loss PLUS any losses already realized by trimming. Without this, trimming could hide losses from the stop and let a grid bleed out slowly. Now the stop guarantees a grid never loses more than the set threshold, whether through open or realized losses.

Percent vs Currency mode (new in V4.4) — Percent scales with account size (e.g. 30% of grid start equity). Currency is an absolute figure (e.g. close at -300€), useful for prop accounts with fixed loss limits.

Account DD Stop (new in V4.4) — A systemic backstop. When several correlated grids fall together, each can stay under its own grid threshold while the whole account drops. This stop closes everything if account drawdown from the peak (high-water mark) exceeds the limit. After it fires, the peak re-anchors to the recovered balance so the EA is not locked out, and a cooldown pauses new entries.

Drawdown Control

Proactive per-grid trimming before the hard stop is reached. Enabled by default at 15%.

Parameter	Default	Description
DD Trim On	true	Enable drawdown-based trimming
Trim Trigger Mode	Percent	Percent (% of start equity) Currency (absolute)
Trim DD Value	15.0	Trim when grid loss exceeds this (% or currency)

Trim DD Levels	2	Oldest levels to trim per event
Trim DD Cooldown	60	Minutes between trims on the same grid

Currency mode (new in V4.4) — Like the Equity Stop, Drawdown Control can now trigger on an absolute currency loss instead of a percentage — handy for fixed per-grid risk budgets.

Margin Protection

Parameter	Default	Description
Margin Mode	Auto	Off Auto (margin-level monitoring) Fixed (position cap)
Fixed Max Open	15	Fixed mode: max positions per grid slot
Min Margin Level	150%	Auto mode: trim/roll when margin level drops below this
Overflow Action	Trim	Stop Roll Trim when the limit is reached
Trim Mode	Auto	Auto (proportional) Fixed (flat lot reduction)

- **Auto (default)** — Monitors account margin level every tick and trims or rolls the deepest grid when it drops below the threshold. This is what prevents broker stop-outs.
- **Fixed** — Caps positions per grid slot, no margin-level reaction. Use the Equity Stop and Drawdown Control as safety nets in this mode.
- **Off** — No margin monitoring.

How the Layers Work Together

On every tick the EA checks the protections in this order. Each fires before the next becomes necessary.

Every tick: check protection		
Account DD > 50%?	YES	ACCOUNT DD STOP Close ALL grids Systemic emergency
NO		
Grid DD > 15%?	YES	DRAWDOWN CONTROL Trim oldest positions Cooldown 60 min
NO		
Margin Level < 150%?	YES	MARGIN EMERGENCY Trim / roll deepest grid Auto mode only
NO		
Grid loss > 30%?	YES	GRID EQUITY STOP Close this grid Trim-safe backstop
NO		
Continue normal operation		

Grid Equity Stop and Drawdown Control both measure the same grid but differently: Drawdown Control looks at open loss only (to react early), the Equity Stop adds already-realized trim losses (so trimming can't hide the true loss). They never conflict.

Velocity Engine & Dual Grid

Velocity Engine

Delays grid additions during fast adverse price moves. Instead of adding blindly as the market runs, it waits for momentum to subside, then enters at a better price with a distance-scaled lot.

- **Smart Grid** — Hard-blocks entries when velocity is too high, then enters with a lot scaled by distance from the last entry.
- **Safe Grid** — Additionally widens the spacing between levels during volatile periods, reducing exposure.

In backtesting the velocity engine reduced deep grids (6+ levels) by 72–93% while maintaining or improving profit.

Dual Grid (Hedge)

When enabled per pair, the EA can open a counter-direction grid alongside the primary. Strict rules apply: opposite direction only, primary must be at least 2 levels deep, and only one hedge per pair. On netting accounts, hedging is disabled automatically.

The Ten Pairs

All ten pairs are enabled by default. Each has individually optimized entry logic.

Pair	Character	Currencies
USDJPY	High ATR, tight spread, positive swap long	USD + JPY
AUDCAD	Commodity cross, low correlation	AUD + CAD
EURGBP	Low volatility, tight range	EUR + GBP
CHFJPY	Safe-haven vs risk-on	CHF + JPY
EURCAD	EUR cross, moderate volatility	EUR + CAD
EURAUD	High ATR, strong mean reversion	EUR + AUD
EURJPY	EUR/JPY cross, BOJ-sensitive	EUR + JPY
GBPUSD	Trend-prone, monitor closely	GBP + USD
EURUSD	Most-traded major, tight spread	EUR + USD
NZDCAD	Commodity cross, adds NZD coverage	NZD + CAD

Currency exposure: EUR appears in 5 pairs; USD, JPY and CAD in 3 each. The Grid Risk tier limits how many can trade the same currency direction at once.

Enabling and disabling pairs (V4.5) — Each pair has a single on/off switch in the Symbols group. Everything else — take profit, spacing, lot multiplier, velocity, entry logic — comes from the built-in presets and is not user-configurable. Earlier versions exposed around 130 per-pair inputs through a Manual Settings strategy; testing showed these values only work as coherent sets, so both the inputs and that strategy were removed.

General Settings

Parameter	Default	Description
Symbol Suffix	(empty)	Broker suffix like -STD, -ECN, .raw (new in V4.4)
Maintenance Mode	false	Block new grids, keep managing existing ones
Magic Number	20260324	Base magic with per-pair offsets
Max Spread	4.0	Max spread for entries, all pairs (pips)
Show Dashboard	true	On-chart status display

Dashboard Mode	Compact	Compact (tile grid) Detailed (full table)
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Symbol Suffix (new in V4.4) — Some brokers append a suffix to symbol names (VT Markets: AUDCAD-STD or -ECN; IC Markets: .raw). The EA first looks for the plain name, then tries the name plus your suffix. Set this if your broker uses suffixed symbols.

Maintenance Mode — Stops opening new grids while continuing to manage existing ones normally. Use it to wind down cleanly — for a prop account upgrade or planned downtime — until all grids close on their own.

Dashboard Mode (new in V4.5) — Two on-chart layouts. Compact is the default: one tile per pair, two per row, showing the symbol with its Primary and Hedge floating P&L on the left and the pair's realized P&L in large type on the right. At ten pairs it needs roughly 40% of the height the full table does, so it fits a normal chart without scrolling. Detailed is the older full layout — per-level grid depth, velocity badges, signal gauges and a separate statistics block. Switch to it when diagnosing a specific grid.

Changelog

Version 4.5

- **Two new pairs** — EURUSD and NZDCAD join the portfolio, bringing it to ten. NZDCAD adds the first NZD exposure, so all eight major currencies are now covered.
- **Every pair re-optimized** — All ten presets were re-tuned, most of them against the velocity engine rather than the lot multiplier. Grids now close faster and stay shallower: across the portfolio, maximum grid depth and floating drawdown both fell substantially while profit rose.
- **Simplified settings** — The ten per-pair parameter groups are replaced by a single Symbols group of on/off switches, and the Manual Settings strategy is removed. Around 130 inputs disappear. Max Spread and Hedge are now single global settings.
- **Compact dashboard, now the default** — A tile-based on-chart layout that fits ten pairs on a normal chart. Each tile pairs a symbol's floating Primary and Hedge P&L with its realized result. The previous full table remains available as Detailed.
- **Auto Lot is now predictable** — The lot is rounded down to the broker's volume step instead of to the nearest. "0.01 per €10,000" now means exactly that: 0.02 starts at €20,000, not €15,000. Accounts that are not an exact multiple of the tier will trade slightly smaller than before.
- **Swap-Aware TP is global, and capped** — One setting for all pairs instead of ten, plus a new cap (default 30%) limiting how far accumulated swap may shift the take-profit target. Prevents long-running grids from chasing their own holding costs.
- **Velocity in the Fixed Lot preset** — Six of ten pairs now run the velocity engine in Fixed Lot mode with flat lots — trend protection without lot escalation. Previously Fixed Lot disabled velocity entirely.
- **Better correlation filter** — The currency filter now compares real exposure rather than raw trade direction. A buy on EURUSD is short USD, not long — so it no longer counts as concentration against a USDJPY buy.
- **Cleaner journal** — Per-pair indicator diagnostics no longer appear in the Experts log on startup. Broker volume information and all trading messages are unchanged.

Version 4.4

- **Trim-safe Grid Equity Stop** — the stop now counts realized trim losses, closing a loophole where trimming could let a grid bleed out unseen.
- **Account DD Stop** — new systemic backstop that closes all grids on account-wide drawdown from the peak, with automatic peak re-anchoring and a cooldown.
- **Currency mode for stops** — both the Grid Equity Stop and Drawdown Control can now trigger on an absolute currency loss, not just a percentage.
- **Grid Risk tier** — a single Low/Medium/High/Very High setting replaces the separate same-currency and max-grids controls; margin-based grid capping was removed as irrelevant on high-leverage accounts.
- **Two-tier lot cap** — separate ceilings for the initial lot and for grid adds, preventing deep-grid lot escalation.
- **Symbol suffix support** — automatic resolution for brokers using -STD, -ECN, or .raw suffixes.
- **Robust order handling** — all orders now pre-validated for volume limits, eliminating rejected-order errors; lot mode simplified to Fixed and Auto.

Version 4.3

- **Grid Risk introduced** — unified exposure tier.
- **Netting account compatibility** — hedge auto-disabled on netting accounts.

Version 4.2

- **Portfolio expanded to 8 pairs** — added CHFJPY, EURCAD, EURAUD, EURJPY, GBPUSD.
- **Grid Strategy presets** — Fixed Lot Grid, Smart Lot Scaling, Manual Settings.
- **Velocity Engine** — distance-scaled adds and dynamic spacing.
- **Dual Grid (Hedge)** — optional counter-direction grid per pair.
- **Swap-Aware TP** — take profit adjusts for overnight swap costs.

Frequently Asked Questions

Which chart do I attach it to? Any M15 chart. The EA trades all ten pairs regardless of the chart symbol.

My broker uses AUDCAD-STD, not AUDCAD. Set the Symbol Suffix to -STD (or -ECN, .raw as applicable). The EA will find the correct symbols.

Does it work on netting accounts? Yes, but hedging is disabled automatically. Hedging accounts are recommended for the full feature set.

What protects me from large losses? Four layers: Account DD Stop (whole account), Drawdown Control (gradual per-grid trim), Margin Protection (account margin level), and the Grid Equity Stop (hard per-grid backstop). The velocity engine and Grid Risk tier further limit exposure.

What is the difference between percent and currency stops? Percent scales with your account (e.g. 30% of a grid's start equity). Currency is a fixed amount (e.g. -300€). Currency mode suits prop accounts with fixed loss limits.

How do I shut down safely? Enable Maintenance Mode. Existing grids close on their own, no new ones open. Once flat, the account can be migrated or upgraded.

How much capital do I need? €1,000 minimum for 3–4 pairs at Low risk; €5,000+ recommended for all eight.

Do I need a VPS? Recommended. The EA must be running to manage its grids.