

M C P S E R V E R

N O C O D E

C L O U D H O S T E D

Pet Bed Area Calculator MCP.

Ensure every pet gets the right amount of space.

Pet Bed Area Calculator handles the math for pet product sizing. It calculates surface area from dimensions and checks if a specific bed fits the requirements for Small, Medium, Large, or Extra Large pet categories. Your AI client uses these tools to validate measurements and compare bed sizes against standard sizing thresholds.

A+ Quality Score 100/100

pet-care

dimensions

area-calculation

sizing

pet-supplies



The connectivity layer between AI and the world's software.

Vinkius sits between AI and every application. All communication passes through Vinkius Cloud via the Model Context Protocol (MCP) — with governance, observability, and security at every layer.

Your AI Connections Run Through Vinkius Cloud

The world's largest
managed MCP catalog

Vinkius is the connectivity layer where AI connects to the software your business already runs. We handle the hosting, the security, the credentials, the uptime — you get agents that actually do things.

We operate the world's largest managed MCP catalog. Major SaaS platforms, CRMs, databases, and cloud providers — running, monitored, production-ready. This MCP server is hosted and maintained by the Vinkius Cloud for AI Agents.

The agent doesn't manage credentials, doesn't manage uptime, doesn't manage security. Vinkius does.

— Architecture principle

Four Pillars of the Vinkius Runtime

01 — Security by design

Credentials stay encrypted at rest via AES-256. The AI agent never touches raw keys — they're injected into a sandboxed V8 isolate at runtime. Actions are logged, and connections have an emergency kill switch.

03 — Deterministic observability

Eight immutable metrics per endpoint: request volume, p95 latency, error rate, active connections, cost attribution. A live payload feed logs every tool call with mutation detection.

02 — Built on MCP Fusion

This MCP server was built with **MCP Fusion**, the open-source framework (Apache 2.0) that powers the entire Vinkius catalog. Schema-as-firewall strips undeclared fields, compiled PII redaction runs at zero overhead, and cryptographic lockfiles produce git-diffable audit trails.

04 — Autonomous operations

Servers are deployed, monitored, and patched autonomously. New capabilities and security patches ship weekly. Zero-downtime deployments ensure continuous availability across all managed MCP servers.

AES-256

Encryption at rest

Ed25519

PKI vault signatures

24h TTL

Ephemeral session keys

V8 Isolate

Sandboxed execution

One Token. Instant Access.

Every MCP server on Vinkius is accessed through a **Connection Token**. Tokens are generated in the cloud dashboard and produce a unique MCP endpoint URL. Paste this URL into any MCP-compatible client — no SDK required.

A single token can serve **multiple AI clients simultaneously**, or you can issue separate tokens per client for granular access control. Each token tracks its own request count, last activity timestamp, and can be individually enabled or revoked.

MCP ENDPOINT`https://edge.vinkius.com/{token}/mcp`

Claude



Cursor



VS Code



Windsurf



Grok



Gemini

Security Is the Architecture

Security in Vinkius is not a feature — it's the foundation of the runtime. The gateway enforces multiple independent protection layers between AI agents and third-party APIs.

01 — Ed25519 PKI Vault

Every workspace has an Ed25519 Master Key. Session keys are generated ephemerally (24h TTL) and signed by the Master Key. Credentials never leave the vault boundary.

02 — V8 Isolate Sandboxing

Tool code runs inside isolated-vm V8 isolates with 64 MB memory caps and per-request timeouts. No filesystem access, no network access except through the SSRF-guarded fetch bridge.

03 — SSRF Guard

All outbound HTTP requests are DNS-resolved and validated before execution. Private IP ranges (10.x, 172.16-31.x, 192.168.x, AWS metadata 169.254.x) are blocked at the network layer.

05 — Cryptographic Audit Trail

Every request is signed into a SHA-256 hash chain with Ed25519 signatures. Events form a tamper-proof, SIEM-exportable forensic record.

04 — DLP & PII Redaction

A ResponseGuard pipeline intercepts every tool response. Configurable redaction patterns strip sensitive fields (emails, SSNs, card numbers) before data reaches the AI agent.

06 — Honeypot Trap System

Phantom credentials are injected into isolated environments. If a honeypot is used outside Vinkius infrastructure, the server is quarantined instantly.

Emergency Kill Switch

EU AI Act Art. 14(1)
Compliant

The kill switch is an **emergency halt** mechanism — not a simple toggle. When triggered, it executes three actions atomically:

01 — Server deactivated

The MCP server is immediately taken offline across the entire cluster.

02 — All tokens revoked

Every connection token is invalidated. Total lockout — reconnection blocked until new tokens are issued.

03 — WebSocket connections killed

Active connections terminated via Redis pubsub broadcast. Propagates to every runtime node in the cluster.

Full Visibility. Zero Guesswork.

The Vinkius cloud dashboard includes a full MCP Governance suite — real-time analytics and security controls for production AI operations.

Control Plane

KPI dashboard with request volume, latency, success rate, token consumption, and AI-generated operational briefings.

FinOps

Cost tracking per tool, payload compression savings, budget optimization signals, and consumption trends.

Firewall & DLP

PII redaction activity, sensitive data protection counters, and security event timeline.

Agent Activity

Which AI clients are connecting, how often, and what they're doing — real-time session tracking.

Tool Health

Slowest and most error-prone tools, with actionable root-cause insights and performance baselines.

Incident Log

Error trends, failure rates, status-code breakdowns, and forensic audit trail access.

Get started at cloud.vinkius.com — connect your AI agent in under 60 seconds.

Pet Bed Area Calculator MCP

4 tools available

Cloud-hosted on Vinkius

If you are managing pet supply inventories or designing product specs, you need precise sizing data. This MCP takes the guesswork out of pet bed dimensions. Instead of manually calculating area or looking up size charts, you can ask your AI client to handle the math. You can check if a bed's length and width provide enough surface area for a specific pet size, or simply verify that your measurements are physically possible. It works by comparing your input dimensions against a set of predefined sizing requirements for different pet categories. This ensures that a bed labeled for a Large pet actually meets the minimum area needs for that category. It is a simple way to keep your pet product data accurate and consistent.

Core Capabilities

01 — Area Calculation

Your agent calculates total surface area from length and width inputs.

02 — Size Verification

The AI checks if a bed meets the minimum area for specific pet categories.

03 — Requirement Auditing

Your client retrieves the full list of minimum area thresholds for all sizes.

04 — Dimension Validation

The MCP confirms that the provided measurements are physically possible.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/pet-bed-area-calculator — connect your AI agent in three steps.

- 01 Connect your preferred MCP-compatible client to Vinkius.
- 02 Provide the bed dimensions or pet category to your AI agent.
- 03 The agent calls the necessary tool to perform the calculation or check.
- 04 The agent returns the verified area or suitability result to you.

Connecting to this MCP gives your AI client immediate access to pet sizing math.

Built For

This MCP is built for professionals managing pet product specifications and inventory data.

Pet Supply Inventory Managers

They hand off dimension data to the AI to ensure stock meets size standards.

E-commerce Product Specialists

They use the tool to verify that product descriptions match actual bed sizes.

Pet Product Designers

They use the math tools to check if new prototypes meet category requirements.

What Changes When You Connect

- 01 Eliminates manual area calculations.
- 02 Standardizes sizing across different pet categories.
- 03 Prevents errors by validating physical dimensions.

04 Provides instant access to sizing thresholds.

Real-World Applications

Inventory Auditing

Check if a new shipment of beds meets the size requirements for the intended pet category.

Product Listing Creation

Verify that the dimensions listed on a website provide enough space for the pet size advertised.

Design Prototyping

Confirm that a new bed design meets the minimum area needs for Large or Extra Large pets.

Customer Support Accuracy

Use the tool to answer customer questions about whether a specific bed is big enough for their pet.

Patterns to Avoid

Manual Math Errors

❌ AVOID

You manually multiply length by width in a spreadsheet and accidentally miscalculate the total area for a Large bed.

✓ INSTEAD

Let your agent handle the math using ``get_bed_area`` to ensure the surface area is always correct.

Vague Sizing Claims

❌ AVOID

You list a bed as 'Extra Large' on a website without checking if the dimensions actually meet the category minimums.

✓ INSTEAD

Run your dimensions through ``check_size_suitability`` to confirm the bed actually fits the intended pet category.

Impossible Product Specs

❌ AVOID

You enter a bed dimension where the width is larger than the length or a negative number by mistake.

✓ INSTEAD

Use ``validate_dimensions`` to catch physical measurement errors before they reach your product listings.

The Right Fit

Connect this MCP if you manage pet product specs or inventory and need to ensure sizing consistency. If you are just browsing pet beds for personal use, you don't need this. The decision comes down to whether you need to verify that physical dimensions meet specific category standards.



Pet Bed Area Calculator: 4 Specialized Tools

These tools handle surface area math, size category verification, and dimension validation for pet products.

#	TOOL	DESCRIPTION
01	check_size_suitability	Determines if a bed provides enough surface area for a specific pet category like Small or Extra Large.
02	get_bed_area	Calculates the total surface area of a bed using its length and width.
03	list_size_requirements	Provides the minimum area thresholds required for all pet size categories.
04	validate_dimensions	Checks if the provided length and width measurements are physically valid.

See It in Action

Real prompts you can use once this MCP is connected to your AI agent through Vinkius Cloud.

U What is the area of a pet bed that is 50cm long and 40cm wide?



The total surface area of the pet bed is 2000 square centimeters.

U Is a bed with 30cm length and 30cm width suitable for a Small pet?



Yes, a 900 square centimeter bed is suitable for a Small pet.

U Show me the minimum area requirements for all pet sizes.



The minimum area requirements are: Small: 400, Medium: 1000, Large: 2500, Extra Large: 5000.

Frequently Asked Questions

01 How does the MCP determine if a bed is suitable?

It calculates the total area of the bed and compares it to the minimum area required for the chosen pet category.

02 What pet categories are supported?

The MCP supports Small, Medium, Large, and Extra Large pet categories.

03 Can I use this with Claude or Cursor?

Yes, you can connect this MCP to any MCP-compatible client including Claude, Cursor, and Windsurf.

04 Does it handle different units of measurement?

The tool performs calculations based on the numerical values you provide for length and width.

05 What are the minimum area requirements?

The requirements are Small: 400, Medium: 1000, Large: 2500, and Extra Large: 5000.

06 How do I know if a bed is big enough for my pet?

You can use the `check\_size\_suitability` tool by providing the bed's length, width, and your pet's category (e.g., Medium) to see if it meets the minimum area requirement.

07 Can I validate measurements before calculating area?

Yes, the `validate\_dimensions` tool allows you to check if the length and width are positive and within optional maximum bounds.

Go Live in 60 Seconds

Get your connection token from cloud.vinkius.com, then paste the endpoint URL into any MCP-compatible client.

YOUR MCP ENDPOINT

`https://edge.vinkius.com/[TOKEN]/mcp`

CLIENT	WHERE TO CONFIGURE
 Claude AI	Profile → Customize → Connectors → "+" → Add custom connector → Paste endpoint
 Cursor	Settings → Features → MCP Servers → "+" Add New MCP Server" → Type: SSE → Paste endpoint
 VS Code	Ctrl/Cmd+Shift+P → "MCP: Add Server" → add <code>"pet-bed-area-calculator": { "url": "..." }</code>
 Windsurf	MCP Settings → <code>mcp_settings.json</code> → Add endpoint URL
 ChatGPT	Settings → Tools & plugins → Add MCP server → Paste endpoint
 Gemini	Extensions → Add MCP Server → Paste endpoint URL

ASK AN AI ABOUT THIS

Let your preferred AI explain this MCP server

-  Ask ChatGPT 
-  Ask Claude 
-  Ask Perplexity 
-  Ask Gemini 
-  Ask Grok 

READY TO CONNECT

Pet Bed Area Calculator is live on Vinkius Cloud.

Get your connection token, paste it into your AI agent, and start building. No SDK. No deployment. Just results.

Start at cloud.vinkius.com →

vinkius.com · support@vinkius.com

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Platform	Vinkius Cloud for AI Agents
Endpoint	<code>https://edge.vinkius.com/{token}/mcp</code>

LICENSE & USAGE

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