

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

Brake Service Cost Forecaster MCP

Get exact repair estimates and compare shop quotes instantly.

Brake Service Cost Forecaster MCP gives your AI client the math skills to handle automotive maintenance budgeting. It handles everything from calculating specific axle part costs to generating full service estimates that include labor, taxes, and contingency funds. You can also use it to spot price differences between different repair shops.

A+ Quality Score 100/100

brake-service

budgeting

automotive-maintenance

cost-estimation

car-repair



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.

Brake Service Cost Forecaster MCP

4 tools available

Cloud-hosted on Vinkius

Stop guessing how much a brake job will actually cost you. This MCP gives your AI agent the specific tools needed to build accurate automotive maintenance budgets. Instead of doing manual math, you can feed your repair estimates directly to your agent to get a clear picture of your spending.

You can break down costs by axle to see exactly what parts are driving the price up. If you have multiple quotes from different mechanics, your agent can run a comparison to show you the price gap. It also helps you see if a quote is heavily weighted toward labor or parts, so you know if you're getting a fair deal. Whether you are planning a full service or just checking the cost of new rotors and pads, this MCP handles the calculations for taxes and contingency funds too.

Core Capabilities

01 — Axle Costing

Your agent uses this to find the total for specific front or rear axle components.

02 — Full Budgeting

Your agent calculates a total estimate including labor, taxes, and extra contingency funds.

03 — Quote Comparison

Your agent identifies the price gap between two competing repair estimates.

04 — Cost Breakdown

Your agent analyzes the ratio of parts costs to labor costs.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/brake-service-cost-forecaster — connect your AI agent in three steps.

- 01 Connect your MCP-compatible client to the Vinkius platform.
- 02 Provide your agent with the parts, labor, and tax details from your repair quote.
- 03 Ask your agent to run a specific calculation like an axle cost or a full budget.
- 04 Review the calculated totals and comparisons directly in your chat interface.

Connect your client to Vinkius and start sending repair data to your agent.

Built For

This MCP is built for anyone managing vehicle maintenance budgets or comparing repair costs.

Fleet Managers

Hand off repair quotes to the agent to quickly compare costs across different vehicles.

Car Owners

Use the agent to verify if a mechanic's quote is reasonable compared to part costs.

Automotive Accountants

Let the agent calculate total service budgets including taxes and contingency amounts.

What Changes When You Connect

- 01 Eliminates manual math for complex repair estimates.
- 02 Identifies price discrepancies between different service providers.
- 03 Provides a clear view of parts versus labor spending.

04 Includes tax and contingency math in every full budget.

Real-World Applications

Comparing Mechanic Quotes

Input two different estimates to see which shop is offering the better price.

Planning Major Repairs

Generate a full budget that accounts for labor, taxes, and unexpected costs.

Analyzing Part Costs

Check the specific cost of an axle's components to understand the total part spend.

Budgeting for Maintenance

Use the contingency tool to ensure you have enough funds for a complete brake service.

Patterns to Avoid

Manual Math Guessing

❌ AVOID

You try to manually add up parts, labor, and tax in a notepad to see if a mechanic's quote is fair.

✓ INSTEAD

Let your agent handle the math by using ``calculate_full_service_budget`` to get a complete total including taxes and contingency funds.

Ignoring Labor Ratios

❌ AVOID

You accept a high quote because the total price looks okay, without realizing the labor cost is disproportionately high.

✓ INSTEAD

Use ``summarize_component_costs`` to see exactly how much you are paying for parts versus labor.

Single Quote Reliance

❌ AVOID

You take the first estimate you receive from a shop and assume it is the best deal available.

✓ INSTEAD

Get a second estimate and use ``compare_service_quotes`` to find the exact price gap between the two shops.

The Right Fit

Connect this MCP if you manage vehicle maintenance budgets or need to verify mechanic quotes. Do not connect it if you aren't responsible for automotive repair decisions. The decision comes down to whether you need to validate repair costs against parts and labor ratios.

Brake Service Cost Forecaster 4 Tools

These tools handle the heavy lifting for automotive budgeting, from individual axle parts to full service estimates including taxes.

#	TOOL	DESCRIPTION
01	calculate_axle_costs	This tool calculates the total cost for a specific axle based on the parts you provide.
02	calculate_full_service_budget	This tool generates a complete budget including parts for both axles, labor, taxes, and a contingency amount.
03	compare_service_quotes	This tool determines the exact price difference between two different service estimates.
04	summarize_component_costs	This tool provides a breakdown of how much you are spending on parts versus labor and other service elements.

See It in Action

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

U Calculate the cost for the front axle with pads at \$50, rotors at \$120, and fluid at \$30.



The total cost for the front axle is \$200.

U Compare a service quote of \$450 with another quote of \$485.



The difference between the quotes is \$35, and the first quote is cheaper.

U What is the total budget if front axle parts are \$200, rear axle parts are \$180, labor is \$150, tax is 8%, and contingency is \$50?



The grand total for the full service is \$464.40.

Frequently Asked Questions

01 How do I use this MCP with my AI client?

You connect your client, such as Claude or Cursor, to Vinkius. Once connected, your agent can immediately use the brake budgeting tools.

02 Can I include taxes in my budget calculations?

Yes. The `calculate_full_service_budget` tool allows you to provide a tax rate as a decimal to get a complete total.

03 Does this MCP help with comparing different shops?

Yes. You can use the `compare_service_quotes` tool to find the exact price difference between two different estimates.

04 Can I calculate costs for just one axle?

Yes. The `calculate_axle_costs` tool is designed specifically to find the total for a single axle based on the parts you list.

05 What is a contingency amount?

It is an extra amount of money you can add to your budget to cover unexpected repair costs during the service.

06 How do I calculate the total cost for just the front brakes?

You can use the `calculate_axle_costs` tool by providing the costs for pads, rotors, and fluid for the front axle.

07 Can I compare two different mechanic quotes?

Yes, use the `compare_service_quotes` tool to find the absolute difference between two total estimates.

08 Does the budget include taxes and contingency?

Yes, the `calculate_full_service_budget` tool allows you to input a tax rate and a flat contingency amount to get a final grand total.

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>"brake-service-cost-forecaster": { "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

Brake Service Cost Forecaster 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	https://edge.vinkius.com/{token}/mcp

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