MCP SERVER | NO CODE | CLOUD HOSTED

Odoo Manufacturing MCP

Manage Production, Materials, and Resources via AI.

Odoo Manufacturing MCP lets you manage your entire production cycle through natural conversation. Schedule new manufacturing runs, check component needs against Bills of Materials (BOMs), track work orders on the shop floor, and list available work centers—all without switching tabs from your AI client.

A+ Quality Score 100/100

manufacturing-orders | bill-of-materials | work-centers | production-planning | resource-scheduling | assembly-line

MAINTAINED BY VINKIUS CLOUD FOR AI AGENTS · JUNE 2026

vinkius.com/mcp/odoo-manufacturing

SCAN TO VIEW

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.

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.

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.

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	Ed25519	24h TTL	V8 Isolate
Encryption at rest	PKI vault signatures	Ephemeral session keys	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.

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.

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.

06 — Honeytoken Trap System

Phantom credentials are injected into isolated environments. If a honeytoken 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.

Agent Activity

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

FinOps

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

Tool Health

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

Firewall & DLP

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

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.

Odoo Manufacturing MCP

7 tools available
Cloud-hosted on Vinkius

Managing physical product creation shouldn't require navigating a dozen different ERP screens. This MCP connects your Odoo instance directly to your agent, allowing you to handle complex manufacturing tasks using plain language. You can generate new production schedules or check material availability by simply asking the question. For example, if you need to know exactly what components are required for a specific product, this tool retrieves the full Bill of Materials list instantly. It also lets you see all active work orders across different stations and track which production runs are ready to move forward. This integration makes sure your AI client becomes your command center; it's much more powerful than just using general-purpose catalog tools. By connecting through Vinkius, you get access to this deep operational knowledge alongside hundreds of other enterprise applications.

Core Capabilities

01 — Schedule production runs

Create a new manufacturing order for a specific product quantity, automatically setting up the necessary work orders.

02 — Check material requirements

Retrieve a complete list of raw materials and their required quantities for any defined Bill of Materials.

03 — Review production progress

Get full details on a specific manufacturing order, showing how much has been produced versus what was planned.

04 — List available product recipes

View all Bills of Materials in your system, listing the finished product and its type (normal vs. kit).

05 — Monitor current production activity

See a comprehensive list of manufacturing orders across the shop floor, including their status and planned start date.

06 — Identify physical resources

List all configured work centers, providing details on capacity, code, and current operational status.

07 — Track specific production steps

Review individual work orders—the small steps like cutting or assembly—to check their state and expected completion time.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/odoo-manufacturing** — connect your AI agent in three steps.

01 First, you tell your AI client exactly what product needs to be made and how many units.

02 The MCP then checks the Bills of Materials (BOMs) against current stock levels and compiles a list of all necessary components and resources.

03 Finally, it generates a new manufacturing order record in Odoo, setting up work orders and flagging any immediate material shortages.

The bottom line is that you skip the manual process of checking recipes, then creating an order, and then updating the status across multiple screens. You just talk to your agent.

Built For

This MCP is for operations managers, production planners, and warehouse leads who are tired of switching between dashboards to keep track of a product run. If you spend time manually verifying component lists or checking if the shop floor has capacity, this tool is built for you.

Operations Manager

Uses the MCP to get an immediate status update on all manufacturing orders across different work centers, identifying bottlenecks before they happen.

Production Planner

Requests a full list of Bills of Materials and uses that data to calculate component needs for upcoming product runs months in advance.

Warehouse Lead

Checks the status of individual work orders, ensuring materials are ready and assigned correctly before an assembly step begins.

What Changes When You Connect

01 Stop manually calculating component needs. You can run the `odoo_get_bom_components` tool to instantly verify all raw materials required for any product recipe.

02 Get a real-time snapshot of your entire factory floor by listing manufacturing orders using `odoo_list_manufacturing_orders`, tracking status without logging into Odoo.

03 When planning capacity, use `odoo_list_work_centers` to see all available machines and stations, making resource allocation decisions faster than ever before.

04 Don't lose track of a job. Use `odoo_list_work_orders` to check the status of every single step in production, knowing exactly which operation is waiting for materials or labor.

05 Need to start a new run? Instead of navigating forms, simply ask your agent to execute the `odoo_create_manufacturing_order` tool with parameters like product and quantity.

Real-World Applications

A sudden spike in demand requires immediate production scaling.

The Operations Manager asks their agent, 'We need 500 units of Product X by Friday.' The agent first calls `odoo_list_boms` to confirm the recipe, then uses `odoo_get_bom_components` to identify if all materials are available. Finally, it executes `odoo_create_manufacturing_order`, setting up the entire production schedule with minimal human input.

A product line is stuck because a key resource is overloaded.

The Production Planner asks their agent to check capacity. The agent runs `odoo_list_work_centers` and notes that 'Laser Cutter A' is at 95% capacity. This allows the planner to re-route jobs or delay production based on real machine limitations.

Need to audit a complex, multi-stage product run.

The Warehouse Lead asks for details on Order S0042. The agent uses `odoo_get_manufacturing_order` and then drills down using `odoo_list_work_orders`, providing step-by-step progress updates (e.g., 'Cutting is done; Assembly is pending').

Starting a completely new, custom production line.

The Manager asks the agent to see what's possible. The agent runs `odoo_list_boms` to give them a full catalog of available products and their associated manufacturing formulas.

Patterns to Avoid

Trying to manage production using only general data queries

✗ AVOID

Asking the agent for 'all inventory' when what you really need is a list of finished products with their full component requirements. This gives you irrelevant stock counts and no manufacturing context.

✓ INSTEAD

Don't ask for generic inventory. Use `odoo_list_boms` first to find the correct product recipe, then use `odoo_get_bom_components` to get the specific material list tied directly to production.

Assuming all resources are available

✗ AVOID

Creating a manufacturing order without checking if the necessary work centers or materials exist. This results in an immediate failure and wasted time.

✓ INSTEAD

Always check resource availability first. Run `odoo_list_work_centers` to confirm capacity, then use `odoo_get_bom_components` before finally executing `odoo_create_manufacturing_order`.

Confusing a draft order with a live status update

✗ AVOID

Viewing an old manufacturing order that was cancelled months ago and thinking it's still active. This leads to incorrect reporting and inventory miscounts.

✓ INSTEAD

When checking status, always use `odoo_list_manufacturing_orders` first to filter by the current state (e.g., 'progress'), then retrieve specific details using `odoo_get_manufacturing_order`.

The Right Fit

Use this MCP if your pain point is physical production scheduling, resource allocation, or BOM verification within an Odoo environment. You need to move complex, multi-step operational data—like linking a product recipe to component stock and then creating the work orders—from multiple screens into a single conversational flow. Don't use it if you are only managing simple sales order tracking (use a dedicated CRM tool) or if your manufacturing process is not defined by structured BOMs and work centers. If your core need is financial reporting, stick to accounting-focused MCPs; this one is purely for the shop floor.

The Operational Dashboard Nightmare

Today, starting a production run feels like managing an airport terminal. You jump into Odoo's dashboard, click over to inventory, cross-reference the Bill of Materials spreadsheet, then switch tabs to see if the work centers are free. You copy component codes here, paste them there, and finally navigate three more menus just to create the initial manufacturing order record.

With this MCP, you simply tell your agent what you need to make. It handles the entire sequence: it validates the recipe, checks the required components against stock, confirms resource availability using `odoo_list_work_centers`, and generates the complete manufacturing order with a single prompt. You get back immediate action, not just data.

Odoo Manufacturing MCP: Actionable Production Control

The ability to list available products using `odoo_list_boms` and then immediately check the component requirements with `odoo_get_bom_components` eliminates the need for manual spreadsheet cross-referencing. You never have to manually verify a BOM again.

This MCP doesn't just *read* data; it executes actions. By using tools like `odoo_create_manufacturing_order`, you move from theoretical planning straight into live process management. It’s the difference between reading a checklist and checking off boxes on the assembly line.

Odoo Manufacturing: 7 Tools

Use these specific tools to manage the entire lifecycle of a product—from checking initial recipes (BOMs) to scheduling and tracking every work order on the shop floor.

#	TOOL	DESCRIPTION
01	`odoo_create_manufacturing_order`	Creates a new production record for a specific product quantity, setting up the initial manufacturing order in Odoo.
02	`odoo_get_bom_components`	Retrieves the exact raw materials and required quantities needed to build a product from its Bill of Materials.
03	`odoo_get_manufacturing_order`	Pulls all key details for one specific production run, including progress metrics and linked BOMs.
04	`odoo_list_boms`	Lists every product recipe (BOM) in Odoo, detailing the finished item, quantity produced per batch, and type of formula.
05	`odoo_list_manufacturing_orders`	Provides a full overview of all production orders on the shop floor, including product, planned quantity, and current status.
06	`odoo_list_work_centers`	Lists every physical or logical resource (machine/station) available for operations, showing its name and capacity details.
07	`odoo_list_work_orders`	Shows all active work orders—the individual steps like cutting or painting—listing their current state and estimated duration.

See It in Action

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

U Search for leads from the website

CRM Leads — Website

NAME	EMAIL	STAGE	REVENUE
Acme Corp	info@acme.com	Qualification	$15,000
Beta Inc	hello@beta.io	Proposition	$8,500

U Show recent sales orders

Sales Orders

SO#	CUSTOMER	AMOUNT	STATUS
S00042	Acme Corp	$12,500	Confirmed
S00041	Beta Inc	$3,200	Draft

Frequently Asked Questions

01 **How does Odoo Manufacturing MCP handle component shortages?**

It checks component availability automatically when you use tools like `odoo_get_bom_components`. If stock is low or missing, the agent flags it immediately and won't proceed with creating a manufacturing order until you address the shortage.

02 **Can I see which machines are available using Odoo Manufacturing MCP?**

Yes. You use `odoo_list_work_centers` to get an immediate list of every configured resource, including its code and current capacity status, helping you plan around bottlenecks.

03 **What is the difference between listing BOMs and getting components?**

Listing BOMs (`odoo_list_boms`) gives you a catalog of all recipes. Getting components (`odoo_get_bom_components`) takes one specific recipe ID and tells you exactly what raw materials are needed for that product.

04 **Does Odoo Manufacturing MCP only work for new orders?**

No, it tracks the whole lifecycle. You can check existing progress using `odoo_list_manufacturing_orders` and drill down into specific steps with `odoo_list_work_orders`.

05 **Can I create a production order without specifying a BOM?**

While you can, it's best practice to specify one. The system is designed to auto-select the default BOM if you don't provide an ID when running `odoo_create_manufacturing_order`.

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 `"odoo-manufacturing": { "url": "…" }`
Windsurf	MCP Settings → `mcp_settings.json` → 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

Odoo Manufacturing 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

INDEPENDENT PLATFORM DISCLAIMER

Vinkius is an independent platform and is not affiliated with, endorsed by, sponsored by, verified by, or otherwise authorized by Odoo Manufacturing. All third-party trademarks, logos, and brand names are the property of their respective owners. Their use in this document is strictly for informational purposes to identify service compatibility and interoperability.

DOCUMENT INFORMATION

Generated	June 2026
MCP Server	Odoo Manufacturing MCP
Server ID	`019d75e2-b6f7-724a-87d1-ecfe95b5ed88`
Platform	Vinkius Cloud for AI Agents
Endpoint	`https://edge.vinkius.com/{token}/mcp`

LICENSE & USAGE

This document is generated automatically by the Vinkius PDF Engine. Content reflects the MCP server configuration at the time of generation and may change as updates are deployed. For the most current information, visit vinkius.com/mcp/odoo-manufacturing.