Manufacturing agents on Katonic

35 agents across nine areas

A manufacturer's work runs through its planning, plant, maintenance and quality systems and the documents around them. Every agent reaches them in one of four ways, all through the same tool gateway and the same approval rules:

	HOW EACH AGENT CONNECTS
01	**A file the user uploads** in the conversation: a supplier's certificate, a technician's note, a customer's complaint, a batch record.
02	**A knowledge source.** Work instructions, standard operating procedures, equipment manuals, specifications, the quality manual and safety data sheets are indexed in the Knowledge Engine, with each reader's permissions kept.
03	**An imported API.** The company gives Katonic the description of an API it already runs, and the operations it chooses become tools. This is the route to systems of record: work orders, purchase orders, nonconformances, assets, the asset model.
04	**An MCP server from the catalogue,** deployed inside the company's own cluster. This is the route to the data warehouse, reporting databases that hold plant history, and web search.

System names are left out on purpose. The company supplies the address and the sign-in. Nothing here is a tested integration with a named product.

THE NINE AREAS

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AREA 01

Plant operations

AGENT	WHAT IT DOES	READS FROM	WHERE IT STOPS FOR A PERSON
Plant Procedures Q&A Agent	Answers an operator's question from the plant's own work instructions and procedures, cites the step, and says when they are silent	Work instructions and procedures as a knowledge source	It informs. Anything the procedures do not cover goes to the shift lead
Production Scheduler Agent	Proposes a revised schedule when an order, a machine or a material changes, and shows what moves and why	Orders, capacity and material status through an imported API or a reporting database	The planner accepts or changes the proposal. The agent changes no schedule
Shift Handover Agent	Drafts the handover note for the next shift from the shift log and the line's stop records: what happened, what is open, what to do first	The shift log as an uploaded file; stop records from a reporting database, read only	The outgoing shift lead checks and signs the note
Downtime Analysis Agent	Groups a period's line stops by cause, line and product, counts the hours, and lists the causes that recur	Stop records from a reporting database, read only	The production manager draws the conclusions and decides the actions

AREA 02

Maintenance

AGENT	WHAT IT DOES	READS FROM	WHERE IT STOPS FOR A PERSON
Predictive Maintenance Agent	Sets equipment readings and maintenance history against the limits the engineers set, and proposes which work to bring forward, with the readings behind it	Readings from a reporting database, read only; maintenance history through an imported API	The maintenance planner decides. The agent raises no work order on its own
Maintenance Troubleshooting Assistant	Answers a technician's question about a fault from the equipment manuals and past work orders, cites the page and the order, and says when neither covers it	Equipment manuals as a knowledge source; past work orders through an imported API	It informs. The technician decides the repair and follows the lock-out procedure
Work Order Drafting Agent	Turns a technician's notes into a complete work order: asset, fault, work done, parts used, time	The notes as an uploaded file; the asset list through an imported API	The technician or the planner submits the work order
Spare Parts Check Agent	Checks the parts a planned job needs against stock and open orders, and lists what is short	Planned jobs, stock and open orders through an imported API	The planner orders or reschedules. The agent places no order

AREA 03

Quality

AGENT	WHAT IT DOES	READS FROM	WHERE IT STOPS FOR A PERSON
Quality Control Agent	Sets inspection results against the specification, flags the results outside limits and the trends that point that way, with the measurements	Inspection results from a reporting database; specifications as a knowledge source	The quality engineer decides every hold, release or rework
Nonconformance Report Agent	Drafts the nonconformance report from the inspector's notes: what was found, against which requirement, how much is affected, and the containment the procedure asks for	The notes and photos as uploaded files; the specification and the quality procedure as a knowledge source	The quality engineer completes, approves and closes the report
Batch Record Review Agent	Reads a completed batch record and lists missing entries, values outside limits and steps out of order, each with the page	The batch record as an uploaded file; the master record as a knowledge source	The quality person reviews and releases. The agent signs nothing and releases nothing
Customer Complaint Investigation Agent	Gathers what is known about a complaint (the lot, its records, past complaints on the same part) and drafts the first sections of the investigation report	The complaint as an uploaded file; lot and inspection records through an imported API	The quality team owns the investigation, the root cause and the answer to the customer

AREA 04

Supply and inventory

AGENT	WHAT IT DOES	READS FROM	WHERE IT STOPS FOR A PERSON
Supply Chain Delay Agent	Checks open purchase orders and shipments for dates that have slipped, and lists the production orders each delay puts at risk	Open orders and shipment status through an imported API	The planner decides what to expedite or move
Inventory Optimiser Agent	Proposes stock levels and reorder points from usage, lead times and the service levels the company sets	A reporting database, read only	The inventory planner approves any change to a level
Goods Receipt Discrepancy Agent	Sets a delivery note against the purchase order and what was counted in, and drafts the claim for each difference	The delivery note as an uploaded file; the order through an imported API	Stores staff check the count. Purchasing raises the claim
Sales and Operations Pack Agent	Prepares the monthly planning pack: demand, supply, stock and capacity by product family, with the gaps against plan	A reporting database, read only	The planning meeting decides

AREA 05

Procurement and suppliers

AGENT	WHAT IT DOES	READS FROM	WHERE IT STOPS FOR A PERSON
Procurement Agent	Lists supplier orders that are late or unconfirmed and drafts the follow-up to each supplier	Open orders through an imported API	A buyer sends every message
Supplier Certificate Check Agent	Reads a supplier's certificate of conformity or analysis and sets each value against the specification and the order, and lists anything missing or out of limits	The certificate as an uploaded file; the specification as a knowledge source; the order through an imported API	The incoming inspector or the quality engineer accepts or rejects the material
Supplier Performance Review Agent	Prepares a supplier's review: on-time delivery, rejections and open corrective actions for a period, with the figures	A reporting database, read only	The buyer and the supplier quality engineer agree the actions with the supplier
Quote Comparison Agent	Sets supplier quotes for the same request side by side: price, lead time, terms and departures from the request	The quotes as uploaded files; the request for quotation as a knowledge source	The buyer chooses the supplier

AREA 06

Engineering

AGENT	WHAT IT DOES	READS FROM	WHERE IT STOPS FOR A PERSON
Engineering Change Impact Agent	Lists what an engineering change touches: parts, assemblies, drawings, work instructions, open orders and stock	The change request as an uploaded file; parts and assemblies through an imported API; documents as a knowledge source	The change board decides. The agent changes no part or document
Specification Q&A Agent	Answers an engineer's question from the company's specifications and the standards it holds, with the clause cited	Specifications and held standards as a knowledge source	It informs. The engineer owns the design decision
Work Instruction Drafting Agent	Drafts or updates a work instruction from an approved change and the existing instruction, in the company's format	The approved change and the existing instruction as a knowledge source	The process engineer approves and issues the instruction

AREA 07

Health, safety and security

AGENT	WHAT IT DOES	READS FROM	WHERE IT STOPS FOR A PERSON
Safety Observation Agent	Groups a period's safety observations and near misses by area and type, counts them, and quotes the reports behind each group	Observations through an imported API or a reporting database	The safety manager decides what to act on
Incident Investigation Report Agent	Turns witness accounts and the first report of an incident into the investigation report form, and lists what the procedure says must happen next	Accounts as uploaded files; the incident procedure as a knowledge source	The safety manager submits the report. Safety decisions are theirs
Permit to Work Check Agent	Checks a completed permit against the site's permit procedure and lists every missing isolation, signature or precaution	The permit as an uploaded file; the procedure as a knowledge source	The permit authority issues or refuses the permit
Safety Data Sheet Q&A Agent	Answers a question about a chemical from the safety data sheets the site holds, cites the section, and says when the site holds no sheet	Safety data sheets as a knowledge source	It reads out what the sheet says. The safety team answers anything else
OT Security Agent	Triages security alerts from the operational technology network: groups them, adds what is known about each asset, and drafts the case	Alerts and the asset inventory through an imported API, read only	The security team decides every response. The agent touches no device

AREA 08

Aftermarket service and customers

AGENT	WHAT IT DOES	READS FROM	WHERE IT STOPS FOR A PERSON
Field Service Assistant	Answers a field engineer's question from the service manuals and the machine's service history, with the source cited	Service manuals as a knowledge source; service history through an imported API	It informs. The engineer decides the repair
Warranty Claim Check Agent	Checks a warranty claim against the warranty terms and the product's records, says which condition it meets or fails, and drafts the decision note	The claim as an uploaded file; warranty terms as a knowledge source; product and service records through an imported API	The warranty team approves or refuses every claim
Customer Order Enquiry Agent	Answers a customer's question about an order from the order and shipment record, and says when the record does not explain a delay	The order and shipment through an imported API	Customer service sends the answer. Any new date comes from the planner
Technical Enquiry Agent	Drafts the answer to a customer's technical question from product documentation and past answers, with the source cited	Product documentation and past answers as a knowledge source	An application engineer checks and sends every answer

AREA 09

Finance and people

AGENT	WHAT IT DOES	READS FROM	WHERE IT STOPS FOR A PERSON
Invoice Matching Agent	Matches a supplier invoice to the order and the goods receipt, and lists every difference	The invoice as an uploaded file; the order and receipt through an imported API	Accounts payable approves every payment
Cost Variance Review Agent	Sets a period's actual production costs against standard, by product and cost type, and lists the largest differences with the figures	A reporting database, read only	The plant controller explains the differences and decides the actions
Training Content Agent	Drafts a short training note or quiz from a work instruction or procedure, in the company's format	The procedure as a knowledge source	The training lead approves the content. The agent assesses no one

WHAT EVERY AGENT HAS IN COMMON

01 **It runs on the company's own infrastructure or private cloud,** with a model the company serves. Designs, plant data and supplier terms stay there.

02 **Every tool call passes the company's policy.** A policy can allow a tool, record its use, hold it for a person's approval, or block it, for the whole organisation or for one team.

03 **A tool that changes something waits for approval** unless the company has decided otherwise for that tool. That is how no order, schedule, work order or report goes out unapproved.

04 **No agent writes to a machine.** Plant data is read only; the control network is not an agent's tool.

05 **The agent acts as the person using it.** Where the company's API checks the caller, Katonic passes the signed-in user's identity, and the agent cannot claim another.

06 **Every call is recorded,** with who asked, which tool, and what was decided, and an agent, a tool or a whole server can be switched off at once.

WHERE TO START

Pick work where reading is slow, the decision stays with a person, and nothing on the line waits on the agent.

THREE PLACES THAT FIT

Plant Procedures Q&A

Operators ask what the plant's own instructions say and get the answer with the step cited. No production system is touched, so it can run on day one.

Supplier Certificate Check

The agent sets each value on a certificate against the specification. The inspector accepts or rejects.

Nonconformance Report

The agent drafts the report from the inspector's notes. The quality engineer completes and approves it.

One line, one plant, invented data first. Then beside the manual process, measured against it.

Each one prepares the work. A named person decides.

About Katonic AI

Katonic AI builds the platform that organisations use to build, run and govern AI agents on their own infrastructure: in their own data centre, in a private or sovereign cloud, or with no connection to the internet at all. The platform is in production with governments, banks, telecom operators and utilities. Katonic is certified to ISO 27001.

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