ORACLE

Oracle Cloud Infrastructure for Manufacturing

Manufacturing in the digital age

Industry 4.0 has transformed the manufacturing space. Live data from remote manufacturing plants provides critical video, environmental, and inventory data that helps manufacturers make informed decisions and optimize both quality and processes. The combination of live data and global supply chain data gives manufacturers further opportunities to revolutionize their processes so they can successfully overcome the following challenges:

Consolidating internal data
Without a single source of truth, data streams create chaos rather than optimization.

Integrating supply chain data
A global supply chain uses many data sources across formats and standards.

Handling high-performance workloads
Large volumes of data drive valuable simulations that have heavy compute needs.

Why choose OCI for manufacturing?

Oracle Cloud Infrastructure (OCI) helps manufacturers modernize their strategies and enhance processes while creating new opportunities and innovations. With artificial intelligence (AI) and machine learning (ML) overseeing consolidated data sources, anything from supply chain to fulfillment and quality control can be improved. OCI delivers agility for easy scalability and fast responses—even in extreme circumstances or following major disruptions.

"Oracle brings huge capability, innovation, and expertise...That exceptional power and knowledge is a major step forward for our team. Oracle's expertise will touch many areas of the business from the development of major fan engagement and brand building mechanisms to providing rich new resources across the team, including within the engineering and design departments."

Christian Horner, Oracle Red Bull Racing

"Our ability to take new information and build plans around it, and to run our systems quickly, was critical. We were able to understand what we had to do when demand dropped off (in 2020) and also when it started taking off again...Having more robust systems helped us flow our inventory. After golf reopened, we were immediately shipping record demand with much less inventory."

Dave Brownie, TaylorMade Golf

Get to know Oracle Cloud Infrastructure

Oracle is the only company that can deliver industry applications, technology infrastructure, and back-office and front-office solutions—all running on Oracle Cloud Infrastructure. Oracle offers a complete range of innovative features and services to support manufacturing needs.

Flexible cloud environments
OCI supports public cloud, multicloud, and hybrid cloud needs, even with legacy applications.

Data consolidation
Create a single source of truth by consolidating data into a data warehouse or data lake with near real-time access.

High performance computing (HPC)
HPC supports powerful simulations to drive manufacturing decisions on product quality and cost.

AI and ML capabilities
Automatically identify risks and anomalies to stop problems before they start.

Security
OCI minimizes risk with security that is automated, always on, and built in.

How OCI benefits manufacturers

Modernization: Embracing the digital era can completely revolutionize manufacturing. Design strategies can utilize AI and ML for data-driven feedback, live status updates can drive supply chain and fulfillment, and the entire organization can use a future-proof system that's ready to scale.

Supply chain: By consolidating data into a single data warehouse or data lake, the supplier network can be expanded to maximize the possibilities for lean manufacturing and just-in-time delivery. Real-time status visibility enables agile solutions when disruptions arise.

Product quality: OCI centralizes massive amounts of data, allowing product engineering to run complex simulations and then align with supply chain on material availability for proposed innovations. With continuous data input, product feedback can be constantly aggregated for AI and ML to identify patterns and drive continuous improvement.

Custom apps: Every organization has unique needs, and custom apps help meet them. With low-code and no-code capabilities and a suite of built-in tools, custom apps can be quickly developed for tailor-made data solutions. OCI also supports the migration of legacy custom apps, ensuring continuity across organizational processes while expanding capabilities.

Internal operations: With a cloud infrastructure, data is unified in a single source of truth that's accessible to the entire organization, allowing for insights that ultimately impact all departments—from finance to HR. OCI's operations apps power a central decision-making resource and include business, analytics, ERP, HCM, and advertising apps.

> "We operate under five different business units. That means our data is just a little bit messy. We moved several ERPs to OCI…The lakehouse provided a platform and infrastructure all in one place. Now we've had compliments that the data has been available on time every day and their reports are running faster."

Bridget Long, Ingersoll Rand

> "In OCI, we just flip a switch to instantly scale up for more capacity and then scale back down when our traffic levels off. You just can't beat that."

Tommy Pham, Specialized

OCI delivers all the tools necessary to optimize manufacturers for the digital age. From AI/ML capabilities to high-performance computing, OCI's features build the foundation to embrace today's possibilities while preparing for future technological innovation.

Learn more about OCI for manufacturing.
oracle.com/industries/industrial-manufacturing/cloud

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