

LIMITLESS *CNC*

Empowers Manufacturers
To Lead, Not Follow.

Western CNC Production Is At Risk.



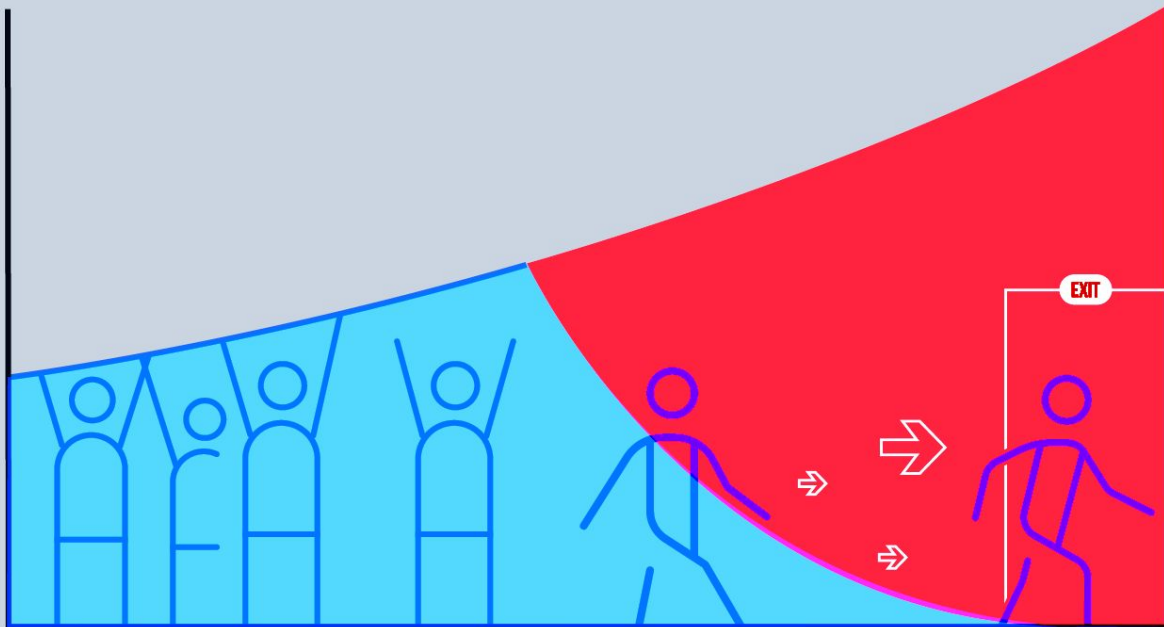
The CNC Talent Gap

For over two decades, manufacturing careers have become increasingly unattractive to younger generations. Engineers gravitate toward R&D roles, leaving the western manufacturing industry vulnerable. The resulting shortage of talented CNC programmers has made it harder than ever to maintain operational excellence.



Rising Western Labor Costs

As labor costs continue to rise in the West, competing with the East's relatively low CNC operating and programming costs has become a significant challenge. This disparity threatens the competitiveness and sustainability of western manufacturing industries.

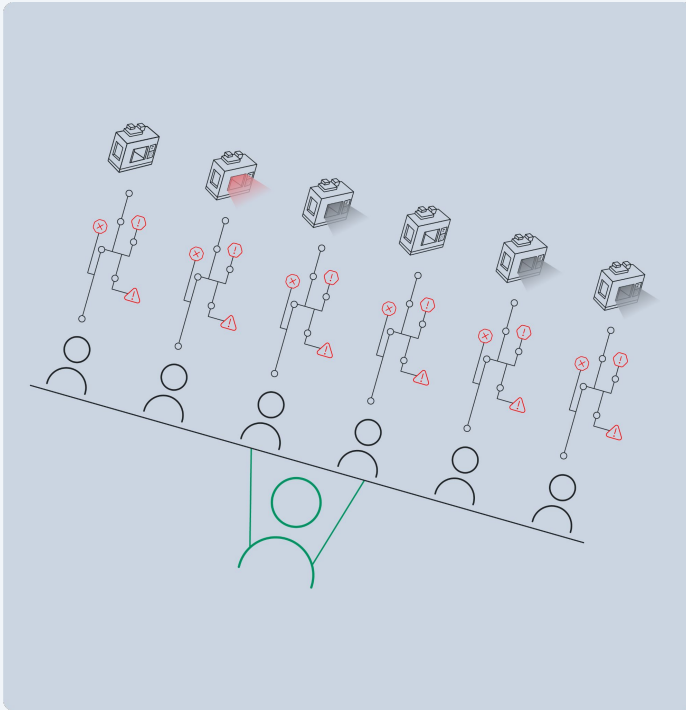


Unlocking Value from 20+ Years of CAD/CAM Data

While PLM/PDM systems and CAD/CAM tools are excellent for creating technical and operational programs, they fail to evolve or learn from past data. They lack the capability to understand GD&T, interpret 3D CAD files, or account for machine-specific limitations, leaving decades of valuable knowledge untapped.

We Make Your Data Work Hard For You

Today



Production Relies Solely on Senior CNC Experts.

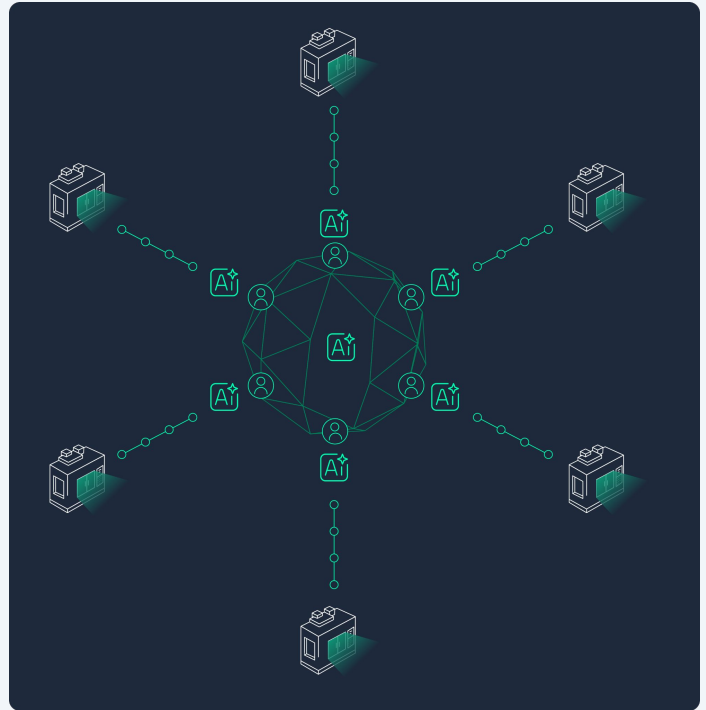
Programming Part Variations Remains Time-Consuming.

Reducing Programming Time to Improve Lead Times is Challenging.

Machine Utilization Peaks at Just 60%.

Long Setup Times Caused by Tool Dynamics, Programmer Errors, and Machine Limitations.

With **LIMITLESS**



Empowering Entry-Level CNC Programmers to Deliver Expert-Level Results.

Simplifying Repeatable Part Variations with AI-Powered Automation.


Cut Programming Time by 75%, Accelerating Lead Times.

Maximize Machine Utilization for Greater Efficiency.

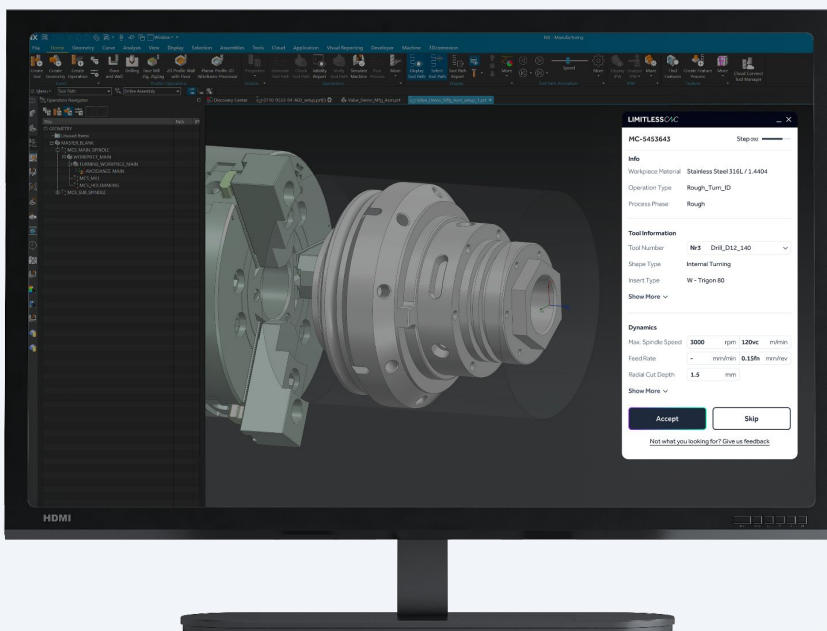
Achieve Shorter Setup Times with Optimized Parameters, Advanced Simulation & Peak Machine Performance.

Your Team's Tailored-Made CAM Agent

 The CNC Talent Gap

 Hours turn into minutes.

 Achieve a perfect run on the first try.



LIMITLESSCAM—×

MC-5453643Step 092

Info

Workpiece MaterialStainless Steel 316L / 1.4404

Operation TypeRough_Turn_ID

Process PhaseRough

Tool Information

Tool NumberNr3Drill_D12_140

Shape TypeInternal Turning

Insert TypeW - Trigon 80

Show More

Dynamics

Max. Spindle Speed3000rpm120vcmm/min

Feed Rate-0.15fnmm/rev

Radial Cut Depth1.5mm

Show More

AcceptSkip

Not what you looking for? Give us feedback



LIMITLESSCAM
Co-pilot

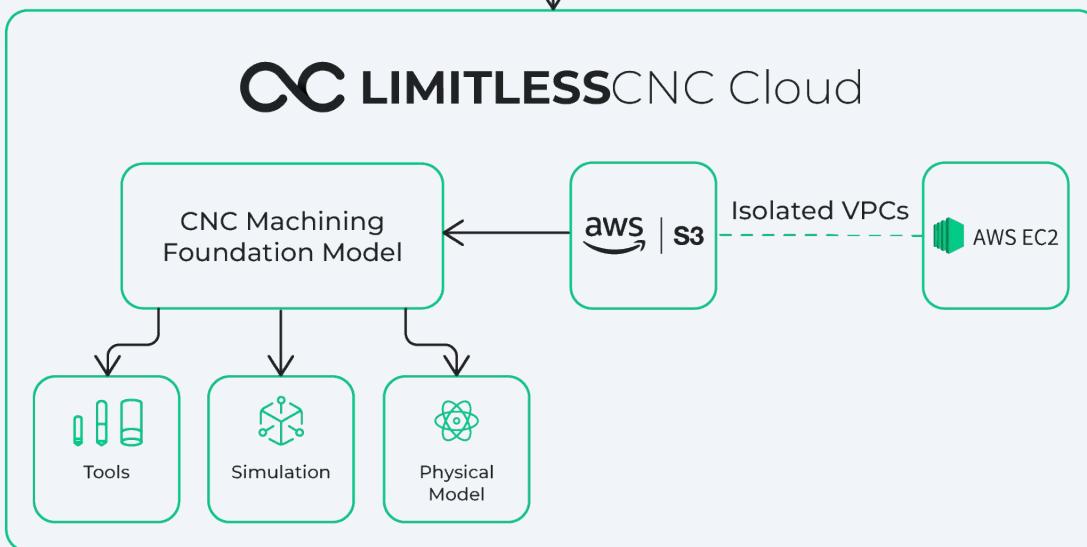
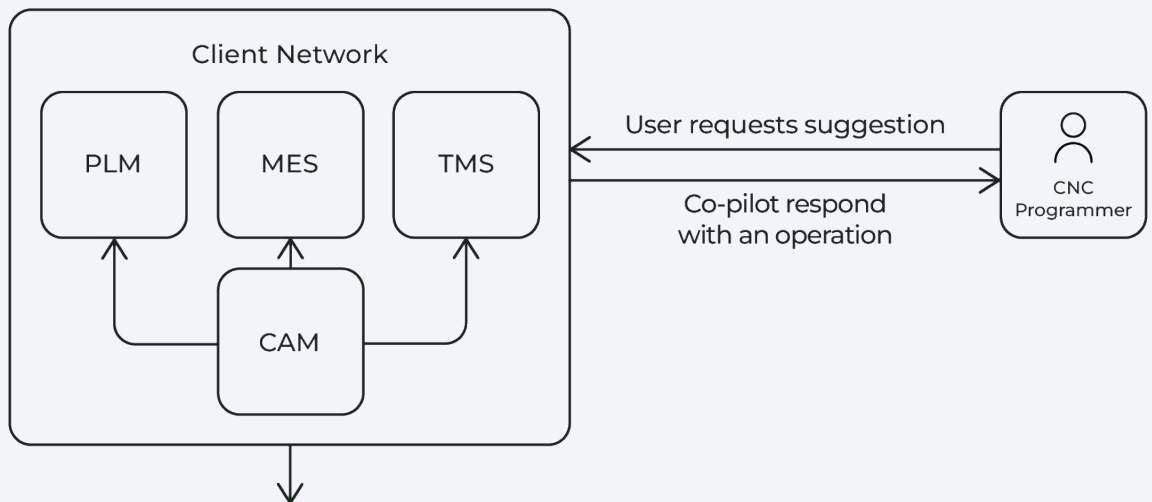
Leverage your CAD/CAM data with Limitless's unique AI models to create a smart suggestion agent. In real-time, it recommends the next best operation and generates it with a single click. The AI selects the optimal tool from your toolbank, applies the correct geometry

and surfaces, and sets optimized parameters while adapting to machine and fixture limits. Fully interactive and adaptive, it seamlessly integrates with changes in the CAM session, giving programmers the best of both workflows.

Seamless Integration Into Your Workflow

Seamless API Integration

Connect directly to your CAM system to interact with users and perceive the 3D state of the workpiece throughout the programming session. Leverage integrations with PLM/PDM systems, TMS and MES systems for a fully connected and optimized workflow.



* On-Premise deployment will be available based specific client requirements

Cloud-Based Collaboration

Enable teams across different sites to access and share global organizational knowledge through the AI Agent.

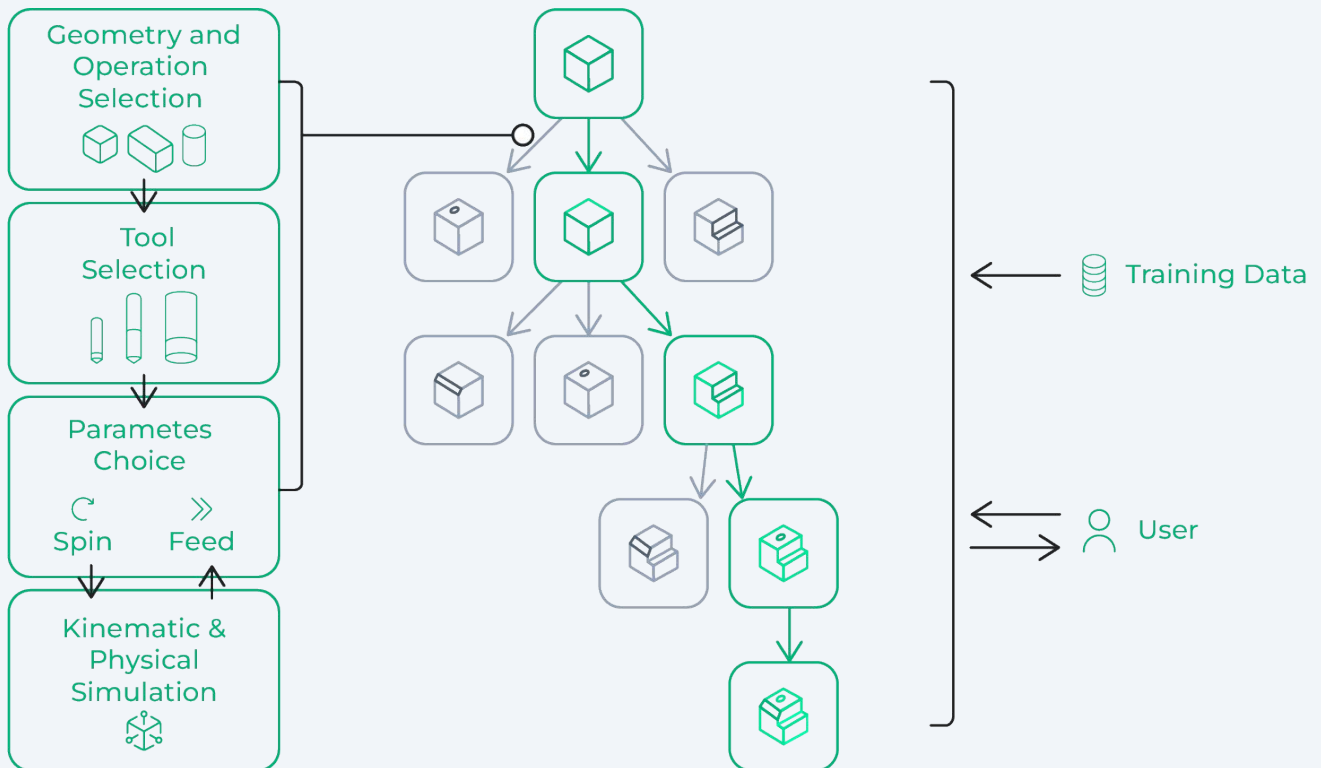
Secure Knowledge Growth

Safely expand your expertise with anonymized CAD/CAM data processed through Limitless's dedicated AI model, ensuring your raw data never leaves your network.

The Technology Behind Seamless Integration

Limitless Base Model

Limitless has developed and trained its proprietary base-model ©. This model leverages open-source data, integrates CNC experts into the training loop, and utilizes reinforcement learning (RL) techniques within a highly accurate NC digital simulation environment to continuously improve performance and adaptability.



Phase I: Fine-Tuning

Once the Limitless Solution is deployed within the client's network, it analyzes and anonymizes the CAD/CAM data. In collaboration with the client's input and requirements—such as leveraging previous templates, prioritizing expert data within the team, and incorporating organizational history—the system fine-tunes the base model. This process transforms it into a customized AI CAM Agent tailored to the client's specific needs and workflows.

Phase II: Production

After activation, the Agent integrates into daily CAM programming processes, continuously gathering user feedback and adapting to meet evolving user requirements, ensuring optimal performance and alignment with the team's needs.

100% Exclusivity

The tailor-made AI model is exclusively dedicated to the client's data. At no point does it access external data or interact outside the organization's secure cloud environment, ensuring complete privacy and control.

The Results From Industry Leaders

Transforming CAM Programming for a Tier 1 Flow Control Leader

A leading European flow control company, operating 100 CNC machines, will deploy **LIMITLESS**CNC Agent in Q1 2025. Integrated with Siemens NX, the solution will automate 50 monthly CAM programs for control valve components, reducing repetitive programming efforts and boosting efficiency.

Global COO

"Repetitive CAM programming is unsustainable and limits lead time reductions. **LIMITLESS**CNC is a game-changer—it's the future, and we're ready to embrace it."

Senior CNC programmer

"Initially, I thought AI in CAM would replace me. After seeing **LIMITLESS**CNC in action, my perspective completely changed. It's not replacing me—it's enhancing my work, making me more productive and enabling the entire team, especially juniors, to handle higher volumes. I can now focus on priority tasks instead of repetitive programming."

Boosting CAM Efficiency for a Tier 1 Heavy Machinery Leader

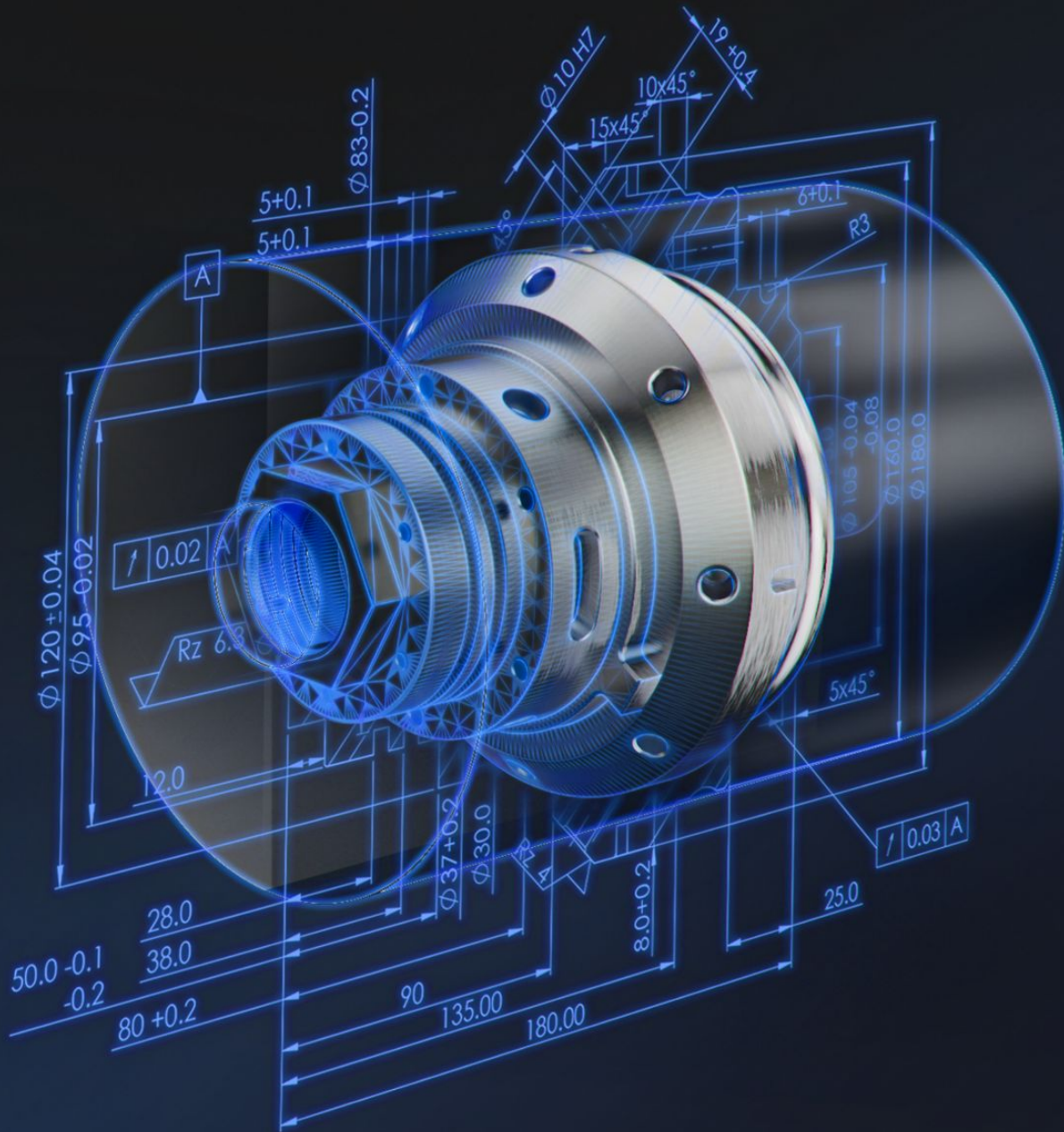
A global Tier 1 European heavy industrial machinery company, with 70 CNC machines at its main production site, plans to deploy **LIMITLESS**CNC's Agent in Siemens NX to automate 40 monthly CAM programs for part variations. Currently, 8 full-time programmers spend 3 days per program, limiting their ability to meet 2025 order demands.

Global Head of Manufacturing

"We've tried everything—templates, macros—but still spend 3 days per program. At this rate, we can't handle our 2025 order list. **LIMITLESS**CNC's Agent is the only solution we see to dramatically increase program delivery capacity to meet demand."

LIMITLESSCNC

Put Your Data To Work



Join The Leaders in AI-Driven Manufacturing

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