Modern Machine Shop

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Success is in operations, not on the shop floor pg. 176

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FEATURES

AUGUST 2026
VOLUME 99
NUMBER 3



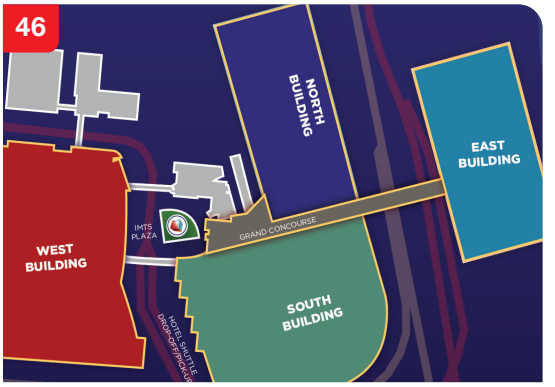
44 IMTS 2026

Your IMTS 2026 Field Guide

From sector maps and planning checklists to what's new in 2026 — everything a shop owner or engineer needs before arriving at McCormick Place.

BY BRENT DONALDSON

PLANNING YOUR IMTS



Looking to Solve a Problem at IMTS? Here's Where to Start

With over 1,800 exhibitors spread across more than 1.2 million square feet of exhibit space, creating a game plan for IMTS can be a challenge. This guide is designed to help provide a starting point for machine shops to plan their time at the show.

BY JULIA HIDER

PLANNING YOUR IMTS



IMTS Success Starts With a Plan

Planning your IMTS visit ahead of time will help you get the most from your time at the show. This year's IMTS Show Planner includes agentic AI to get you started.

BY EVAN DORAN



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IMTS PROCESS SOLUTIONS

Approach IMTS with a 'Process' Mindset

IMTS features many technologies that overlap in what problems they can solve, especially in automation. To find the best fit, go in thinking of processes to improve rather than particular technologies.

BY DEREK KORN

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Applying master deviation to high-precision gaging.

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IMTS – The International Manufacturing Technology Show is a cornerstone event in the manufacturing sector. As the largest manufacturing trade show in North America, IMTS brings the industry together over six days across 1.2 million square feet of show floor with over 1,800 exhibitors. Use the cover feature on pg. 44 to plan your visit to IMTS 2026.

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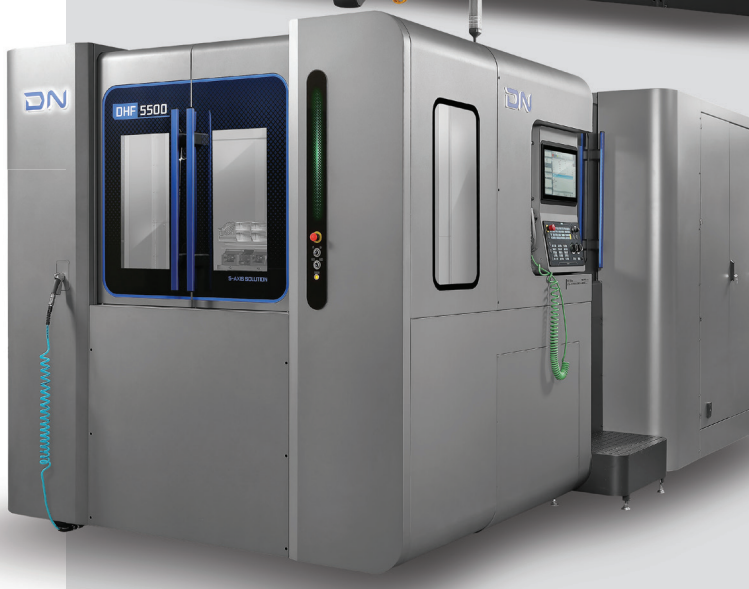

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13 MIN.

VIDEO | Machining with a Mission: Win-Tech Shop Tour

Allison Giddens, co-president of Win-Tech, takes the spotlight in this month's How I Made It feature. Win-Tech was one of our 2025 Top Shops Honorees, and Editor-in-Chief Brent Donaldson visited last year for the linked video tour of the facility, which highlighted the shop's skill and the breadth of its workforce development programs.

WATCH: gbm.media/ShopTour0826

8 MIN.

VIDEO | Trends and Takeaways from IMTS 2024

Before you set out for IMTS 2026, get an idea of the technology and programming on the show floor with *MMS*' takeaways from the 2024 show.

WATCH: gbm.media/IMTS24Takeaways

5 MIN.

ARTICLE | 10 Tips to Make the Most of IMTS

IMTS sprawls over four buildings in McCormick Place, so preparation can be the difference that helps you find the technology or connection that helps your shop flourish. In the linked article, *Additive Manufacturing Media* Editor-in-Chief Stephanie Hendrixson provides 10 tips for attendees to make the most of the show, based on her own experience.

READ: gbm.media/IMTS10Tips

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The Gap Is Closed. Now Prove It.

Manufacturing Connected promised to close the information gap. Now that it's live, here's what will determine whether it delivers on that promise.



bdonaldson@gardner.media

Brent Donaldson
EDITOR-IN-CHIEF

In my last column, I described a shop owner who held off on an aluminum purchase because the pricing signal from his supplier reached him too late. What could have been a warning turned into two questionable decisions.

I called this the information gap, and said Gardner was rebuilding Manufacturing Connected (MC) this summer to close it. MC is live now, and I have an obvious interest in telling you it works. Weigh what follows accordingly — starting with this claim: MC ought to behave differently, not just faster, than a chatbot wrapped around news and data feeds. There's a already a live example on the website that puts that claim to the test.

What's live: daily briefings, the Gardner Business Index, a set of real-time dashboards and tools like Ask the Finishing Expert, our AI tool built on three decades of *Products Finishing*'s expert Q&A archive. (Top Shops benchmarking data is coming soon.) All of this took time to assemble, but it's not the part that decides whether MC will be useful to you. The harder problem is the one the aluminum story was actually about: whether any of it reaches you before facts turn into decisions.

For manufacturing leaders, that distinction means everything. A well-built AI model can produce a very plausible, personalized-sounding answer to almost any question, including whether a price move or policy change applies to your business. The distinction is whether that answer is accountable — whether a leader can trace it to a named source, a verified fact and someone with a track record of getting that kind of call right. That's not an abstraction: MC has 12 editors across Gardner's brands. That's a larger editorial team than the entire statehouse press corps in four U.S. states.

MC's editorial team uses the term "signal" for a development that's been run through a question: Who does this actually affect, and what should they watch for next? A press release or news summary describes what happened. But a true, actionable signal requires someone who understands how a shop quotes work, how a supplier prices risk or how a plant justifies a capital expense, and can say plainly which readers need to move on it and which can ignore it.

Here's the example I referenced at the beginning: Gardner Market Research Analyst Mike Shirk reported that the Moldmaking Index rose to 54.0 in June, a sixth straight month of expansion following six straight months of contraction through the second half of 2025. Read as a single number, that's good news — the market's growing again. But Shirk's reporting goes deeper: Backlog fell to exactly 50, the break-even line, and production eased. Material prices also remain elevated despite a slight decline from May, keeping pressure on moldmakers' margins. The index expanded because exports jumped four points and employment rebounded by more than two, even as new orders slipped for the month.

For a moldmaker deciding whether to add a shift or hold off on hiring, the gap between "the index rose" and "the index rose on exports and headcount while backlog and production softened" is the entire decision. That gap is what the editorial perspective fills, and it's not something the raw index number alone can tell you.

That filtering step is real editorial work — the same responsibility Gardner's reporters and editors have carried for nearly a century: deciding what deserves attention, finding the people who can explain it, and giving readers enough context to make a better decision. That responsibility matters more as AI-generated copy shows up in »

Methods

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every channel a manufacturing leader reads — vendor blogs, LinkedIn posts, generic newsletters — faster than anyone has time to source-check it. Leaders won't stop to ask who wrote this or what they got right last time. That verification has to be built into the platform before the leader ever sees the item, not after.

I also believe that saying "I don't know" is sometimes more trustworthy than always having an answer. Ask the Finishing Expert is a perfect test case because the sourcing is front-and-center. It answers finishing questions by searching more than 3,100 articles from 293 contributing experts, going back to 1995, and every answer cites the specific column it came from. It also refuses to answer when the archive doesn't cover a question rather than generating a plausible guess — the opposite of what a general chatbot does with the same question. The archive's most prolific contributor, Arthur S. Kushner, has more than 600 published answers on plating chemistry alone, and the tool cites him by name every time.

That's the model MC is built on: Gardner's reporting, data and industry relationships are now much faster to find and act on, and they remain the bedrock of the platform. Just streaming raw feeds — index updates, price movements, contract announcements — without the editorial filter would be faster and cheaper to build. But it would also put readers on the hook for the interpretive work, which is the job MC exists to do instead.

AI will keep making it faster to generate more and more manufacturing information, making unfiltered information less and less useful. The interpretation step — deciding what's worth your attention early enough to change a decision — becomes worth more, not less. That's the gap I said we'd close, and MC is live now. Fast is easy. Judge MC by a tougher standard: not whether it tells you something moved, but whether it tells you why and in time to do something about it. That's the whole bet.

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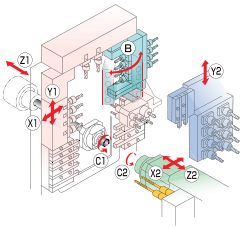



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Applying Master Deviation to High-Precision Gaging

Using master deviation in precision measurements requires a bit of extra diligence on the shop floor, but the payoff in data accuracy and process control is always worth the effort.

PAUL MAILLOUX | CONTRIBUTOR

To accurately measure a manufactured part, a gage must first be calibrated against a known standard. This physical reference standard is known as the master. Whether a setting ring or a plug, the master provides the baseline zero against which all production parts are compared.

But no master is physically perfect. So, what happens when the master itself isn't *exactly* the nominal size? Even the highest-grade masters will differ slightly from their target nominal size.

Because tolerances are incredibly tight, the tiny variance between the master's intended size and its actual physical size cannot be ignored. Understanding, tracking and applying this tiny variance is known as master deviation. While it might seem like a negligible fraction of an inch or millimeter, ignoring it can skew the entire process. Understanding how to apply master deviation is a critical component of high-precision gaging.

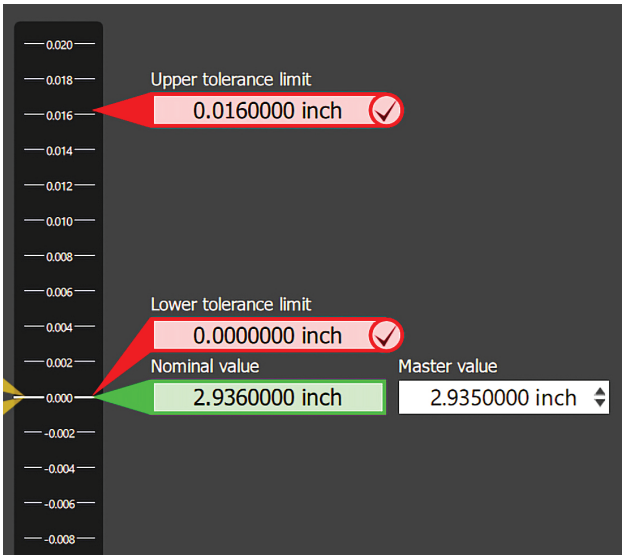
Master deviation is most commonly associated with a master's certification reports. The certification conveys the actual size of the master and how much it deviates or differs from the required nominal size to which it was produced. The master is measured in several locations to account for variations in its geometry. The identification label on the master assists in properly locating the correct certified size to use.

When using a master, the measuring probe is typically placed near the middle of the master. The probe contacts or air jets are oriented to the N-S (North-South) position of the master. N-S is commonly used because it is identified by the manufacturer logo (N) and the nominal size and class of the master (S).

However, the location of the master isn't as important as the consistency of that location. For proper gaging, each operator should locate the measuring probe in the same location and orientation as the master. If operator consistency is uncontrollable, another option is to use the median value of all deviations in the master, keeping error to a minimum.

Many digital readouts include the capability to incorporate the master deviation into the measurement itself. Digital indicators with 'preset' input can enter the true master size for actual size results (1.000009") or, if performing a comparative measurement, enter the deviation value (0.000009"). Electronic amplifier and air systems use features such as 'Nominal' or 'Actual' to enter the part's nominal size (1.000000") and use a

Typical master and nominal size entries. Source: Mahr Inc.





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separate entry for the master size such as 'Master' (1.000009"), 'Deviation' (0.000009") or 'Master Deviation' (0.000009").

The advantage of using master deviation is that the true part size is being measured. Including master deviation into the measurement will make SPC data more relevant and achieve better control of the process.

This is especially important when the master size is significantly different from the nominal size. Masters may wear over time and use, or may be difficult to produce to a true nominal size. Some reasons why master deviation is not used may be that its class or accuracy significantly exceeds the measurement requirement, it is relatively insignificant for what the actual process or environment is capable of, or it is simply forgotten.

It's important to remember there is a reason why modern electronic devices allow for master deviation input: It is a critical component for high-precision gaging and one that shouldn't be overlooked. While it requires a bit of extra diligence on the shop floor, the payoff in accuracy and process control is always worth the effort.

In summary, here is a checklist of the core advantages and requirements to keep in mind when applying master deviation:

- Gives the ability to read the true part size
- Increases the validity of data analysis
- Makes data more relevant and influential in process control
- Incorporates easily into electronic readouts and instrumentation
- Requires certification of the master, typically annually
- Supports match applications where fit and function are critical
- Enables tight tolerances and high-precision requirements
- Increases the confidence level of measurements
- Requires operator diligence and consistency
- Requires controls as part of a quality management system
- Makes instrumentation match the latest or most current certification values
- Supports training and periodic checks, which are key to performance.

AUTHOR | Paul Mailloux
Director of Engineered Solutions, Mahr Inc.



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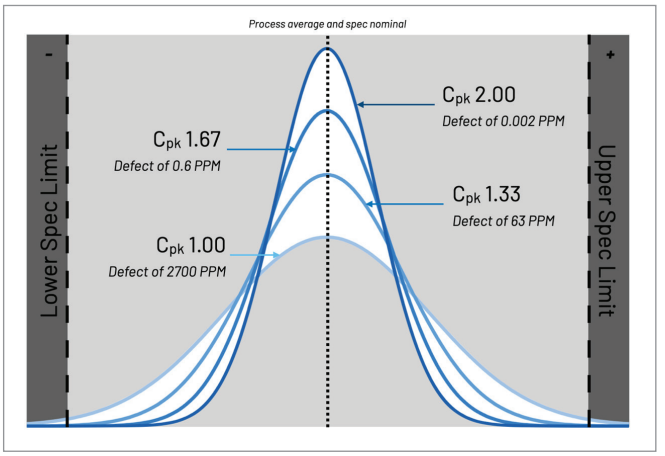
JOHN MILLER | COLUMNIST

READER QUESTION: *A longtime customer of ours is pushing for larger orders from us but also requires a PPAP to certify production. Can you explain this process and what it means for our machining process?*

PPAP (production part approval process) is the package you submit to prove, before the first production order ships, that your process can make the part not just once, but every time you press "cycle start." Part of that package is capability, which is a number that says how well your process fits inside the tolerance. The reason a customer asks for it is simple: Capability lets them buy down risk. If you can show the process holds the feature with room to spare, they can stop inspecting every part and trust the process instead. As volume increases, the ability to scale quality control to match machine output is strained. Therefore, the tradeoff for larger, steadier work requires a high level of trust, which is why PPAP becomes a hurdle to prove a process will hold up with low risk of escapes.

Normal process distribution and defect (parts per million).
Source: Way of the Mill LLC



Statistical Process Control

The capability numbers, Cpk and Ppk, are built on the standard deviation of your process, which is just a measure of how much your parts vary from one to the next. This is referred to as statistical process control (SPC). There are different methods to calculate each, which I will touch on another time, but understand that both represent repeatability and centering of a feature relative to its tolerance. One represents the short term (back-to-back pieces), and the other the long term (a population run over days or weeks). It means the math is a direct readout of part-to-part consistency. As you improve a process and limit variation, the number improves.

The PPAP requirement from your customer may say 1.00, 1.33, 1.67 or even 2.00. This is an indicator of how likely a scrap part could be produced and can be correlated to parts per million.

A customer may also state different capability requirements for different levels of features like "normal" versus "critical" features. As it turns out, manufacturers are usually presented with a double whammy because a feature critical to part function likely has a tight tolerance already and is then stacked with a capability requirement.

The change in machining between making a good part and making a "capable" process is how much of a tolerance you are permitted to consume. The capability requirement quietly takes a cut of your band before you make a chip. Perfectly centered in the tolerance, a Cpk of 1.33 leaves you about three quarters of the band to work in. 1.67 leaves you about 60%. In practice, you plan on losing a third to a half of the tolerance right off the top. As an example, a print may still read ±0.0020", but the number you get to machine to is closer to ±0.0012" because the pro- »

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cess needs room to absorb deviation above and below the average to still be within spec. That reframes the entire job. Once capability takes half your band, you stop treating the tight number as a target to hit and start treating it as the tolerance the part always had to begin with.

On The Machine

At the spindle, that reduction in tolerance shows up everywhere. Capability is a property of the whole process; therefore, all sources of variation will require more care. Put bounds on each step you used to leave open, because anything you leave open shows up in the standard deviation.

The place this gets most difficult is a one-sided tolerance, like a flatness callout. Say the print allows 0.025 mm. You may hold 0.020 mm, with a spread of maybe 0.004 mm across the run — in spec and reasonably well controlled. Every part you make would ship and function without complaint. Despite this, you can still fail capability, because 0.020 mm sits too close to the 0.025 mm limit for the math to pass you, even though nothing is wrong with the parts. That is the moment "good enough to ship" and "good enough to run day to day" stop being the same thing. The parts are fine. Reality says ship it. The math says not yet. Both are right, and closing that gap is the work.

That customer dangling the bigger order isn't betting on a new skill you have to go learn. They already know your parts are good, or they wouldn't be asking. What PPAP changes is the burden of proof. You now have to demonstrate the consistency you've been running all along. Control the variation, hold your center, put bounds on every step that feeds the tolerance. Do that, and the capability number takes care of itself.

Do you have a machining question? Ask the expert. John Miller leans on more than a decade of industry experience to answer machining questions from *MMS* readers. Submit your question online at mmsonline.com/MillersEdge.

AUTHOR | John Miller
Owner, Way of the Mill LLC



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Machining Model Uncertainty

Sequential milling stability tests can be used to reduce uncertainty in tool tip FRFs and cutting force coefficients, helping manufacturers maximize material removal rates without chatter.

TONY SCHMITZ | COLUMNIST

For discrete part production by milling, the optimum combination of spindle speed and axial depth is desired to maximize material removal rate (MRR) and minimize cost. To identify the optimal spindle speed and axial depth combination that provides maximum MRR without chatter, models are available to predict stability maps, which separate spindle speed and axial depth combinations that are stable from those that result in chatter. These models have two primary inputs: 1) the tool tip frequency response function (FRF), which describes the vibration response at the tool tip (free end) due to the cutting force; and 2) a cutting force model that relates the cutting force to the chip area using mechanistic coefficients.

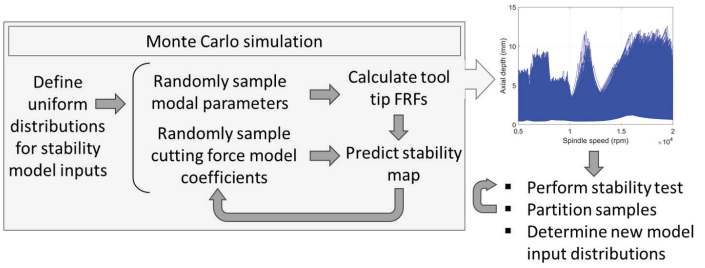


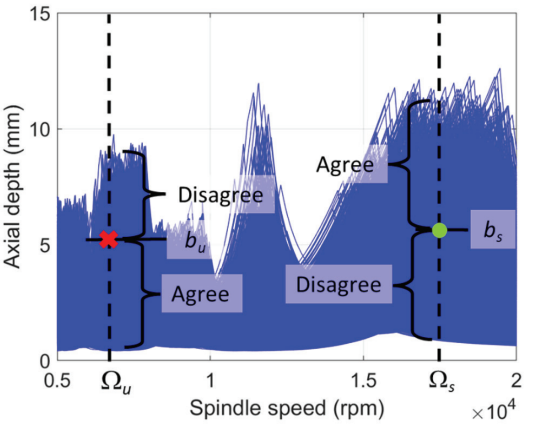
Fig. 1: Sample partitioning using stability testing.
Source (all figures): Tony Schmitz

A sample partitioning approach is presented here to reduce uncertainty in: 1) modal parameters that represent the tool tip FRF; and 2) cutting force model coefficients using milling stability tests. The approach is to partition stability maps that agree with sequential stability tests completed at selected spindle speed and axial depth combinations from those that disagree. Because the stability model inputs (that is, the modal parameters and cutting force coefficients) are uncertain, Monte Carlo simulation is applied to randomly sample distributions of the inputs and predict potential stability maps. Each map represents one sample that may or not be the true map.

The selection of test points is based on the outcome of the previous test (that is, stable or unstable/chatter behavior is exhibited). If the previous test was stable, the next test is selected where maximum expected MRR is obtained. If the previous test was unstable, the chatter frequency is determined by converting a time domain milling signal, such as force or displacement, to the frequency domain. In the frequency domain, chatter is identified when content appears at frequencies other than the tooth passing frequency, f_{tooth}, and its multiples (harmonics). The chatter frequency, f_c (Hz), is applied to calculate the next spindle speed, Ω (rpm), using the following equation, where N_t is the number of teeth on the end mill:

$$\Omega = 60 f_c / N_t$$

Fig. 2: Sample partitioning algorithm description.





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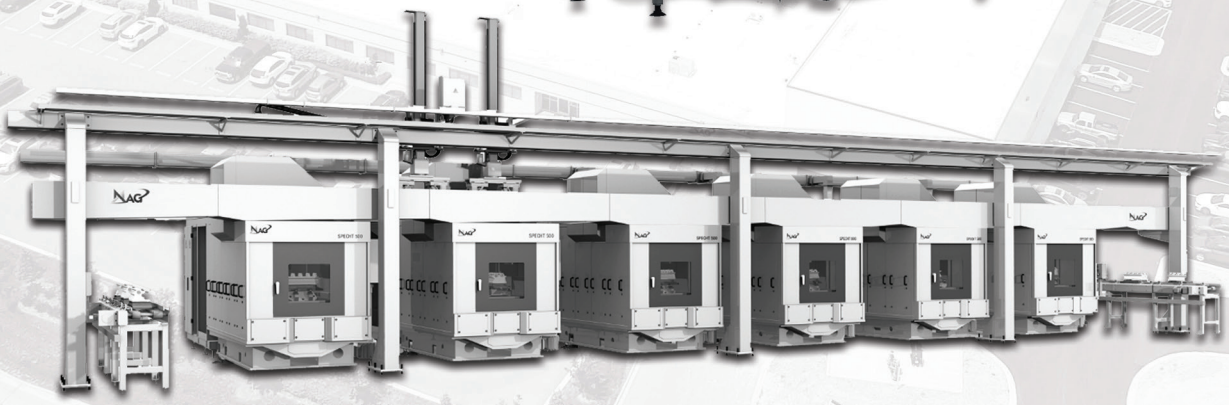

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BEFORE YOU CUT

Scan for the full study evaluating the sample partitioning algorithm and test approach.

After partitioning the maps based on stability tests (that is, a stable or unstable result is obtained), those maps that agree with the tests are used to identify the most likely input values and reduce the associated uncertainty since there is a one-to-one correspondence between the maps and the modal parameters and cutting force model coefficients. The approach is shown in Figure 1.

The sample partitioning algorithm is described by Figure 2, which displays many potential stability boundaries (that is, the family of blue curves) generated by Monte Carlo simulation. Consider the test at the spindle speed-axial depth pair labeled $\{\Omega_u, b_u\}$. As indicated by the u subscript and the red ×, the test result is unstable. The stability boundaries are partitioned using this test result. Those that predict an unstable result (agree) are separated from those that predict a stable result (disagree). Only those sample boundaries that agree are retained.

Next, consider the test at $\{\Omega_s, b_s\}$. As indicated by the s subscript and the green circle, the test result is stable. In this case, all boundaries with a limiting axial depth greater than b_s at Ω_s are retained (agree) and boundaries with a limiting axial depth less than b_s at Ω_s are eliminated (disagree) from the distribution. The sample partitioning is repeated sequentially for all tests, both stable and unstable, to refine the initial distributions of not only the stability maps but also the modal parameters and cutting force model coefficients. Each map that is eliminated also eliminates the values of the modal parameters and cutting force model coefficients used to produce that map. This enables the initial distributions of these uncertain parameters to be refined and the uncertainty in the parameters and stability predictions to be reduced.

AUTHOR | Tony Schmitz
Distinguished Techical Fellow, MSC Industrial Supply Co.

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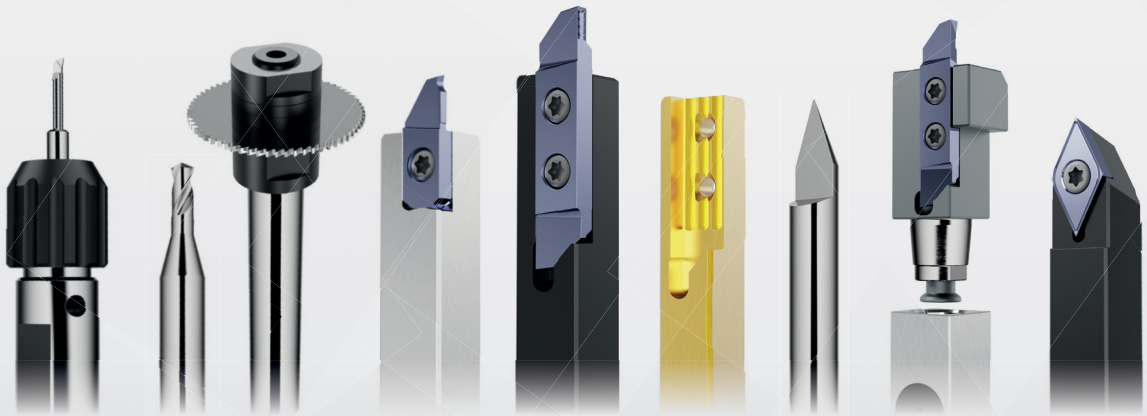

Tariffs, Trade Pressure and Uncertainty

Manufacturers are being forced to make critical decisions with less certainty and less time. To navigate the next 12 months successfully, focus on building resilience into operations, supply chains and decision-making processes.

MIKE SIBLEY | COLUMNIST

Manufacturers have always dealt with uncertainty. What's different today is the speed at which conditions are changing and the number of variables moving at once. The result is an environment where manufacturers are being forced to make critical decisions with less time. The companies that navigate the next 12 months successfully will not be the ones waiting for conditions to stabilize; they will be the ones building resilience into operations, supply chains and decision-making processes today.

Most conversations start with tariffs, but tariffs themselves are not usually the biggest problem. The bigger issue is cost volatility. Tariffs simply add another layer to a cost structure that is already under pressure. Raw material costs, transportation expenses, labor rates and energy costs are all moving targets. Many manufacturers have absorbed some of these increases, hoping conditions would improve. Others have delayed difficult pricing conversations with customers. The challenge is that costs can only be absorbed for so long. Eventually, every manufacturer reaches a point where they must either improve efficiency, adjust pricing or accept margin erosion. None of those decisions are easy.

One of the biggest changes I've seen over the last several years is how quickly manufacturers need to react. A few years ago, many companies could review costs monthly or quarterly and make adjustments. Today, assumptions can change much faster. This means manufacturers need better visibility into supplier performance, pricing trends and market conditions. The organizations that continue relying on historical reports alone often find themselves reacting to problems long after margins have already been affected. You can't manage what you don't measure.

Why "Waiting It Out" Is Not a Strategy

One of the most expensive mistakes I see is waiting. Many manufacturers continue to assume tariffs will eventually disappear, costs will normalize or market conditions will settle down. Maybe they will. Maybe they won't. Building a business strategy around that assumption is risky. Every month a company delays action is another month of potential margin erosion, excess inventory carrying costs or missed opportunities to strengthen supplier relationships. The better approach is to assume uncertainty will continue and build a plan that works regardless of what happens next. If conditions improve, great. Adjust accordingly. But don't bet the business on that outcome.

The strongest manufacturers are treating supply chain management as a strategic function rather than a purchasing function. That starts with asking better questions. Who are your most critical suppliers? Where are your biggest risks? What happens if one of those suppliers experiences disruption? Do you have alternative sources? Have you evaluated domestic versus international sourcing options recently? Many companies know their Tier 1 suppliers very well but have limited visibility beyond that level. In today's environment, that visibility matters. The goal is not eliminating risk; it is understanding it well enough to make better decisions.

Inventory Can Quietly Become a Profit Problem

When uncertainty increases, many companies respond by buying more inventory. Sometimes that makes sense. Sometimes it becomes a very expensive mistake. Inventory provides protection, but it also ties up cash and creates carrying costs. For many manufacturers, annual carrying costs can range from 20-30% of inventory value when »

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storage, insurance, handling, obsolescence risk and capital costs are considered. That's a number many leaders underestimate. We've seen companies build inventory to protect against future disruptions only to discover later that the carrying costs largely eliminated the benefit. The answer is not necessarily less inventory. The answer is better planning. Understanding forecasts, lead times, demand patterns and supplier reliability creates a much stronger inventory strategy than simply buying more material.

What Good Planning Looks Like Right Now

Good planning begins with understanding demand as accurately as possible. That may come from customer forecasts, historical analysis, sales team input or statistical modeling. It also requires stronger supplier collaboration. Talk to suppliers regularly. Understand what they are seeing. Monitor lead times. Track price changes. Measure on-time delivery performance. Review quality metrics. Perform supplier risk assessments. Most importantly, create a process for reviewing these inputs consistently rather than only when problems arise. The companies that make planning part of their operating rhythm tend to outperform those that only react during disruptions.

There is no perfect forecast for what the next year will bring. Tariffs may change. Trade policies may evolve. Commodity prices may rise or fall. New geopolitical issues may emerge. The manufacturers that succeed will not be the ones that accurately predict every event; they will be the ones that build resilient systems, maintain visibility into their costs, collaborate with suppliers, monitor leading indicators and make decisions quickly when conditions change. Financial statements tell you what happened. The real opportunity is understanding what is happening now. Because in an environment like this, speed, visibility and adaptability are the difference between protecting margins and explaining where they went.



AUTHOR | Mike Sibley
Partner, James Moore Manufacturing Services

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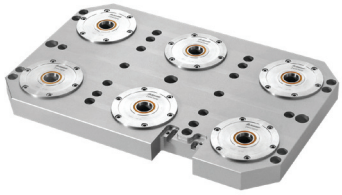





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Metalworking Index Holds Steady in June, Extending Expansion to Six Months

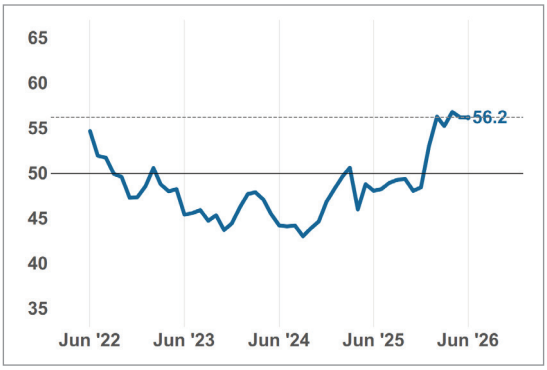
The GBI: Metalworking didn't budge from May, but lengthening lead times and high material prices offset softer backlogs and production.



mshirk@gardner.media

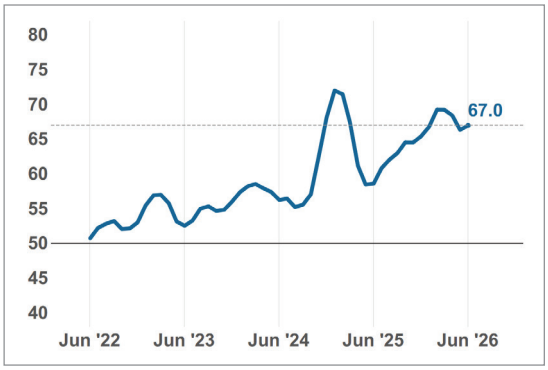
Mike Shirk
SENIOR MARKET
RESEARCH ANALYST

METALWORKING INDEX



The Gardner Business Index (GBI): Metalworking measures the current state of metalworking and machining activity through survey responses covering new orders, production, backlog, employment, exports and supplier deliveries. A reading above 50 indicates expansion, and a reading below 50 indicates contraction.

FUTURE BUSINESS INDEX



The GBI Future Business Index is an indicator of the future state of the metalworking market from industry respondents regarding their opinion of future business conditions for the next 12 months. A reading above 50 indicates expansion, and a reading under 50 indicates contraction.

GBI COMPONENTS SCORECARD

	Change vs Month Ago	Change vs Year Ago
Supplier Deliveries	▲	▲
Production	▼	▲
New Orders	▼	▲
Employment	▲	▲
Backlog	▼	▲
Exports	▲	▲

The GBI Components Scorecard reports the monthly change rate of primary metalworking market factors contributing to the overall monthly index reading.

Reading the Scorecard:

- **Color** indicates *where* a component value falls relative to 50 for the current month. Green indicates expansion, and red indicates contraction.
- **Shade** indicates a value's distance from 50. The darker the shade, the further from 50.
- **Direction** indicates a value's change versus the previous period. Pointing up is always better.

Source (all figures): Gardner Intelligence

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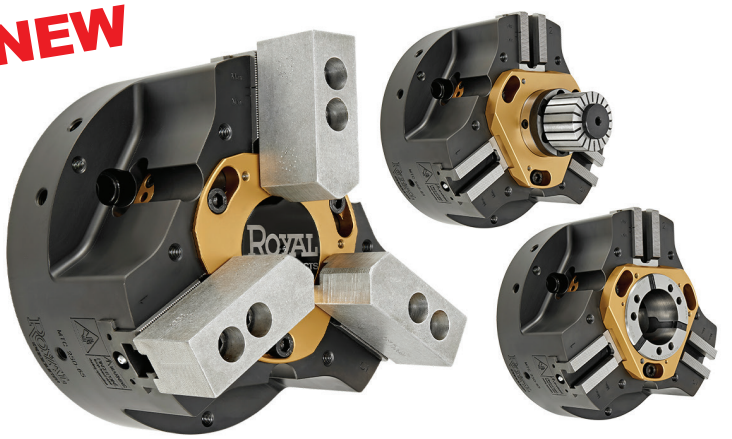

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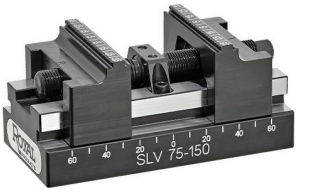

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Make IMTS 2026 Your Bucket List Destination

Michelle Edmonson, CEM
VICE PRESIDENT, EXHIBITIONS

AMT – The Association For Manufacturing Technology, which owns and operates IMTS – The International Manufacturing Technology Show

When noted performance coach (and high school student) Ferris Bueller took a day off because, as he said, "Life moves pretty fast. If you don't stop and look around once in a while, you could miss it," he created a bucket list of Chicago sights: Wrigley Field, the Art Institute, the Sears Tower.

Job shops need to take Ferris' advice. Make the time to experience another quintessential Chicago destination: IMTS 2026 – The International Manufacturing Technology Show, Sept. 14-19 at McCormick Place.

During the six days of the show, IMTS 2026 becomes the Western Hemisphere's greatest concentration of manufacturing technology and the collective wisdom on how to use it. The show features more than 1,800 exhibitors, 1.2 million square feet of show space, 10 technology sectors and more than 90 conference sessions.

Getting parts out the door tends to be all-consuming, but technology today accelerates so quickly you can't afford to play hooky from IMTS 2026. Job shop owner Tom Bassett II knows the value of stopping and looking around.



Tom Bassett II, owner of Pro-Cam Services, with his team in the Zoller booth at IMTS 2024.

"Day-to-day, you become stuck in the bubble that is your shop," says Bassett, owner of Pro-Cam Services, a 24-person job shop in Zeeland, Michigan. "When you go to IMTS, the whole world opens to what other people are doing and where technology is going."

As a result of IMTS 2024, Pro-Cam added a DN Solutions **(IMTS BOOTH #338919)** five-axis machine, which took a 10-hour part with multiple setups down to 20 minutes and a single setup. As a result of an earlier show, Pro-Cam integrated a Zoller **(IMTS BOOTH #432018)** presetter, which played a critical role in boosting revenue by $1 million. Pro-Cam has now added a second presetter.

The theme of IMTS 2026 is "Achieve the Impossible" because we believe that manufacturing has vast, unrealized potential. What seemed unachievable in the past is tomorrow's new baseline. Goals such as a fivefold increase in productivity or a million-dollar revenue boost should be our new normal, because we've seen and chronicled these successes — and that was before the wave of industrial AI solutions hit. Visitors who want to experience this enabling technology will find it woven throughout the manufacturing ecosystem at IMTS, including the new Industrial AI Arena and inaugural Industrial AI Conference.

Stories like Pro-Cam's encapsulate the heart of what IMTS is all about: discovering technology and building the connections that create growth opportunities. The ultimate tools to transform your operation and boost your competitive edge are as varied as our industry. What doesn't vary is the fact that the highest-performing job shops embrace change, and attending IMTS is a proven catalyst.

Technology moves pretty fast. Don't miss out. Register for IMTS 2026 at **IMTS.com/Register**.

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At **IMTS – The International Manufacturing Technology Show**, manufacturer and former musician Chris Basgall discovered the latest technologies, new strategies, and experienced peers. They changed what he thought was possible – and the future of his company.

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Automation Is About Readiness

Stephen LaMarca
SENIOR TECHNOLOGY ANALYST
AMT – The Association For Manufacturing Technology, which owns and operates IMTS – The International Manufacturing Technology Show

Manufacturing automation has entered a new era. The conversation has shifted beyond individual robots and standalone machines to connected systems, AI-enabled decision-making, workforce development and the operational discipline needed to make it all work.

The latest report on the state of manufacturing from AMT – The Association For Manufacturing Technology, "Automation in Transition: Manufacturing's Next Productivity Era," explores what that transformation looks like for manufacturers of every size. Rather than treating automation as a single investment or destination, the report presents it as a journey, built through incremental improvements that reduce manual touchpoints, improve visibility and help manufacturers get more from the people and equipment they already have.

Drawing on research from leading industry organizations alongside AMT analysis, the report examines the current state of automation adoption, the expanding spectrum of robotic solutions, the growing role of artificial intelligence and the workforce challenges shaping every automation decision. It also explores why interoperability, data visibility and process discipline are as important as the technologies themselves.

Whether you're evaluating your first automation investment or expanding an existing production system, the report offers practical guidance for understanding where your organization is today — and what the next step should be. From machine-level automation and collaborative robots to AI-native manufacturing environments and workforce planning, the focus remains on real-world implementation rather than hype.

The manufacturers pulling ahead aren't necessarily the ones buying the most technology. They're the ones building organizations capable of effectively absorbing, integrating and scaling it. That distinction may define the next decade of manufacturing competitiveness.

Visit IMTS – The International Manufacturing Technology Show, Sept. 14-19 at McCormick Place, Chicago, Illinois, to experience the largest show of its kind in the Western Hemisphere. Register for IMTS 2026 at **IMTS.com/Register.**



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The World According To... invites viewers to see through the eyes of the leaders shaping the manufacturing industry. These renowned visionaries will share their insights on the world, the trends driving manufacturing technology, and the possibilities that excite them.

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Elevate Conference Fosters Meaningful Change for Women in Manufacturing

Catherine Ross
DIRECTOR – COMMUNITY ENGAGEMENT

AMT – The Association For Manufacturing Technology, which owns and operates IMTS – The International Manufacturing Technology Show

The advancement of manufacturing relies on more than technological innovation. It also needs talented, creative thinkers and strategic collaboration. To that end, AMT – The Association For Manufacturing Technology and Women in Manufacturing (WIM) have united to co-host the Elevate Conference at IMTS 2026 – The International Manufacturing Technology Show. The Elevate Conference is a half-day event dedicated to developing and connecting the large community of women who power the manufacturing industry.

Held on Sept. 16 during IMTS, the conference offers a comprehensive experience that combines industry insights with leadership and workforce development.

The Elevate Conference comes at a pivotal time as manufacturers struggle with workforce shortages. According to data shared by the U.S. Bureau of Labor Statistics, women account for less than 30% of the manufacturing workforce, a figure that has steadily increased in recent years but still highlights significant opportunities for growth in leadership, engineering, and technical roles.



AMT and WIM are co-hosting the Elevate Conference at IMTS 2026 on Tuesday, Sept. 16.

Empowering Voices

Elevate speakers represent diverse perspectives and career journeys, helping attendees gain a broad picture of the opportunities and challenges shaping the industry's future.

- Keynote speaker Deanna Rutland, industry executive director for Manufacturing and Transportation at Oracle North America, will inspire attendees with her personal insights on resilient leadership, authentic confidence, curiosity and the courage to keep growing while helping others find their voice in manufacturing.
- In a candid fireside chat, Dr. Sharon Cobb, associate program manager for the NASA Space Launch System (SLS) Program at NASA Marshall Space Flight Center, will share lessons learned about leadership and career pivots on her journey to develop the SLS rocket that is enabling deep space exploration and the Artemis program, including NASA's first crewed lunar flyby in 50 years.
- A dynamic panel featuring leaders across the manufacturing landscape will reveal perspectives on fueling innovation, building high- performing teams and shaping the industry's future.

"It's our mission to ignite new ideas so attendees leave with a broader perspective on the opportunities ahead," says Michelle Edmonson, vice president of exhibitions at AMT. "We want them to feel empowered to elevate their impact, their teams and the future of manufacturing."

Register and learn more at **IMTS.com/Elevate**.

MORE THAN JUST INSIGHTS. REAL SOLUTIONS.



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Market cycles can fuel volatility — and reveal new opportunities in manufacturing. Get the tools, sector outlooks, and market data insights to build the right solutions to prepare your business to succeed.

Oct. 14–16, 2026
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IMTS 2026

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2. **EDUCATE.** Locate new companies with services and products you may not be aware of
3. **ORGANIZE.** Keep track of sessions you'll be attending and scheduled appointments on your own personal calendar
4. **COMMUNICATE.** Contact exhibitors before the show even begins
5. **REFERENCE.** Log in after the show to remember which exhibitors you visited and what they were displaying

Set Up Your MyShow Planner

IMTS2026

SEPTEMBER 14-19, 2026
McCormick Place • Chicago

See what these exhibitors and many more are planning for IMTS 2026 at IMTS.com

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Your IMTS 2026 Field Guide

From sector maps and planning checklists to what's new in 2026 — everything a shop owner or engineer needs before arriving at McCormick Place.

BRENT DONALDSON | EDITOR-IN-CHIEF

Six days. 1.2 million square feet. 1,800-plus exhibitors. One reality: If you have no map and no plan, you have no real shot at getting what you came for.

Our goal is to help you move through IMTS with a purpose, find what your shop actually needs and get back to work with decisions made rather than a stack of business cards to file away.

IMTS 2026 runs September 14-19 at McCormick Place in Chicago. The show occupies all four buildings — North, South, East and West — across Level 3, with conferences scattered throughout rooms on multiple levels and the Smartforce Student Summit anchoring North Building Level 1. If you've attended before, the footprint is familiar. What's changed is what's inside it.



No catalog, no sales deck — just a cobot, a tablet and a decision to make. This is why shops come to IMTS.

Why This Show, This Year, Matters More Than Usual

Orders for manufacturing technology grew in 2025 for the first time since 2021. The machine shop sector generates $37.1 billion in output. Investment is accelerating. "We have seen more than $2 trillion in manufacturing investment this year, and the One Big Beautiful Bill Act includes tax policies that encourage more investment," says Douglas K. Woods, president of AMT – The Association For Manufacturing Technology, the show's owner and producer. These policies include the reinstatement of 100% bonus depreciation and the doubling of the Section 179 small business expensing cap from $1.25 million to $2.5 million. Reshoring is no longer a trend; it's a capital allocation decision that thousands of companies are making right now.

That context matters for how you approach IMTS. When investment conditions are favorable, the decision calculus shifts. The shops that will win the next wave of work are the ones that show up at IMTS with specific problems to solve and leave with signed purchase orders.

The numbers on past attendees support this. "When you're in your shop every day, you live in a bubble," says Tom Bassett, owner of Pro-Cam Services, a 24-person CNC job shop in Zeeland, Michigan. "IMTS opens up the world." Bassett has turned four IMTS visits into a systematic

technology upgrade cycle. At IMTS 2024, he signed paperwork for a DN Solutions DVF 5000 five-axis machining center on the fifth day of the show — a purchase that cut cycle time on one aerospace part from 10 hours to 20 minutes. His Zoller presetter, bought at a prior show, generated $1 million in additional revenue within a year of installation. Tavis Vaughn, VP of engineering at CNC Machine Products in Joplin, Missouri, saw a Gorbel intelligent crane at IMTS 2012, filed it away, and called the distributor a decade later when a new cell application made it the right solution.

Neither outcome required luck. As Michael Bauer, owner of Marathon Precision in Wheeling, Illinois, puts it: "For the week of the show, IMTS is the largest, most advanced shop in the world. If you buy technology before anybody else and get good at it, chances are you can win new business."

What's Actually New in 2026

IMTS runs on a two-year cycle. If you attended in 2024, the floor layout is mostly familiar, but three changes are significant enough to affect your planning:

- **THE INDUSTRIAL AI ARENA IS NEW AND LARGE.** Located at the front of North Hall — the most visible real estate on the floor — the AI Arena brings together 40 new exhibitors focused entirely on applied AI for manufacturing. The emphasis is production-floor outcomes: quality inspection, predictive maintenance, process optimization, demand forecasting, cybersecurity and safety. This is not a concepts pavilion. If your shop is trying to figure out where AI actually delivers ROI versus where it's still vaporware, this is the most efficient place at the show to make that evaluation. The companion Industrial AI Conference (Wednesday, September 16, South Building S401) runs a full day and was developed with Dr. Jay Lee of the University of Maryland Center for Industrial AI. It covers predictive maintenance, edge versus cloud deployment and what "machine-learning-ready" data looks like in a real manufacturing environment.

- **THE AUTOMATION SECTOR IS SIGNIFICANTLY LARGER.** Launched as a standalone sector at IMTS 2024, it returns with 175-plus exhibitors and a new accessibility theme. Cobots with teach-to-program interfaces, zero-CapEx automation-as-a-service models, and sub-$1,000/month CNC machine-tending packages are prominently represented. The math on automation has shifted: 71% of high-performing job shops run some form of unattended operation; those shops average 15 hours of machine utilization per day versus 8.5 hours for shops without automation, and $350,000 in sales per machine versus $183,000. The Automation Sector is where you close that gap.

- **THE AMT EMERGING TECHNOLOGY CENTER IS A LIVE PRODUCTION SYSTEM, NOT A DEMO.** In partnership with Oak Ridge National Laboratory, Mazak, Haimer, Kennametal, Schunk and FANUC, AMT will operate a continuous end-to-end manufacturing system on the North Building floor for all six show days — producing actual drone airframes using hybrid manufacturing and robotic assembly, integrating and testing complete units throughout the week. It makes visible how digital twins, AI and automation interact under real production constraints, not controlled demo conditions.

How to Use This Guide

The pages that follow are organized as a working tool rather than a narrative. The show map and sector guide on the next spread tells you where each technology category lives and what changed since IMTS 2024. The problem-to-aisle mapping connects specific shop goals — reducing setup time, adding unattended capacity, improving inspection throughput, handling heavier parts — to the sectors, aisles and specific exhibitors most likely to address them.

IMTS 2026 is the largest collection of manufacturing technology available in the Western Hemisphere for six days in September. That is either an overwhelming fact or a strategic asset, depending on how prepared you are when you walk through the door at McCormick Place on September 14.

This guide is the preparation.

Register at IMTS.com/Register. Use the IMTS Show Planner at IMTS.com/Planner to build your floor route before you arrive.

Looking to Solve a Problem at IMTS? Here's Where to Start.

JULIA HIDER | EXECUTIVE EDITOR

WEST BUILDING

LEVEL 3

Tooling & Workholding Systems

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IMTS+ MAIN STAGE

SOUTH BUILDING

LEVEL 3

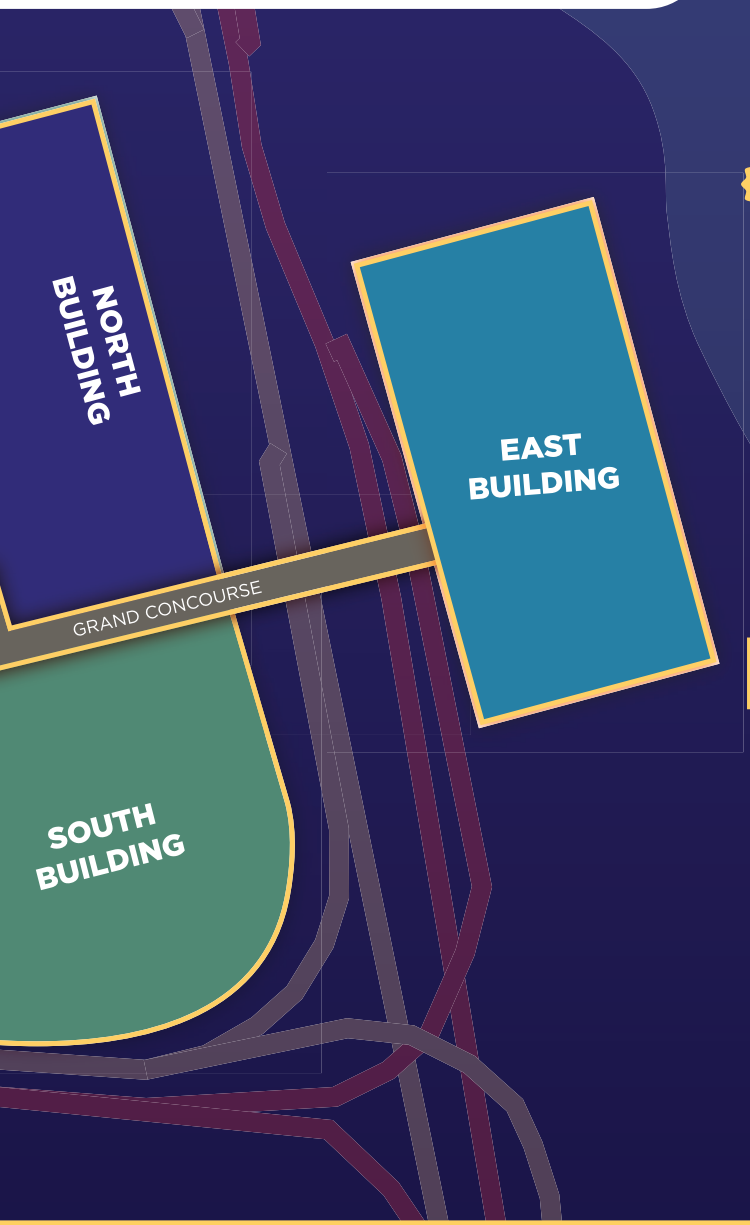
Additive Manufacturing

Metal Removal

IMTS+ TECHNOLOGY HUB *SOUTH*



With 1,800-plus exhibitors spread across more than 1.2 million square feet of exhibit space, creating a game plan for IMTS can be a challenge. This guide is designed to help provide a starting point for machine shops to plan their time at the show.



NORTH BUILDING

LEVEL 3

- Abrasive Machining / Sawing / Finishing
- Gear Generation

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NEW IMTS2026 INDUSTRIAL AI ARENA

SMART MANUFACTURING EXPERIENCE SHOWCASE

LEVEL 2

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EAST BUILDING

LEVEL 3

- Fabricating & Lasers
- Machine Components / Cleaning / Environmental
- Quality Assurance
- Software

IMTS+ TECHNOLOGY HUB *EAST*

PROBLEM 1: Long Setup Times Erode Profitability

For high-mix, low-volume manufacturing, the focus is often less on the part itself and more on the setup. The less efficient the setup is, the less money a shop makes on that job. Job shops have two main avenues to attack this problem: machines and tooling/workholding.

LOCATION		SOLUTIONS
WEST BUILDING Tooling & Workholding	**Aisles 431500–431600**	Shrink-fit toolholders, hydraulic toolholders, workholding chucks
	Aisle 432200	Zero-point clamping systems, modular vise systems, pallet workholding, hydraulic fixtures
SOUTH BUILDING Metal Removal	**Aisles 338800–338900**	Robot-tended machining cells, automated part-loading systems, flexible manufacturing systems, pallet changers, turnkey robot loader cells
	Aisles 338500–338600	Horizontal machining centers, pallet changer systems, flexible manufacturing cells
	Aisles 339100–339200	Turn-mill machines, multitasking machines, multispindle machines, Swiss-type machines

PROBLEM 2: CAM Programming Backlogs Slow Throughput

As parts become more complex and lot sizes shrink, programming becomes a bottleneck for shops. Shops have two ways to make programming more efficient: programming automation and AI-assisted toolpath generation and controls with conversational programming capabilities that enable programming on the shop floor.

LOCATION		SOLUTIONS
EAST BUILDING Software	**Aisle 133200**	CAM software, AI-assisted toolpath generation, feature-based automation, postprocessors
	Aisle 133300	Multiaxis CAM software, toolpath verification and simulation software
SOUTH BUILDING Metal Removal	**Aisle 339400**	CNC control with conversational programming systems







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PROBLEM 3: AI Products Are Difficult to Evaluate

A flood of AI-powered solutions for manufacturers has recently hit the market, and many shops are determining which are relevant for their needs. At IMTS, shops can visit multiple vendors and ask questions about implementation costs, training and ROI to figure out what's hype and what's helpful.

LOCATION		SOLUTIONS
EAST BUILDING Software	**Aisle 133200**	CAM software, AI-assisted toolpath generation, feature-based automation
	Aisle 133300	Multiaxis CAM software, toolpath verification and simulation
NORTH BUILDING Industrial AI Arena	**Aisle 237600**	AI-native manufacturing analytics, computer vision inspection





PROBLEM 4: Low Utilization on Expensive Machine Tools

Shops that invest money into advanced machine tools such as multitasking and five-axis machines need to keep them running as much as possible to see a reasonable ROI. Machine monitoring systems can help surface problems, while robotic machine tending, pallets and flexible manufacturing systems can enable lights-out production.

LOCATION		SOLUTIONS
SOUTH BUILDING Metal Removal	**Aisles 338800–338900**	Robot-tended machining cells, automated part-loading systems, flexible manufacturing systems, pallet changers, turnkey robot loader cells
EAST BUILDING Software	**Aisle 133100**	Machine monitoring software

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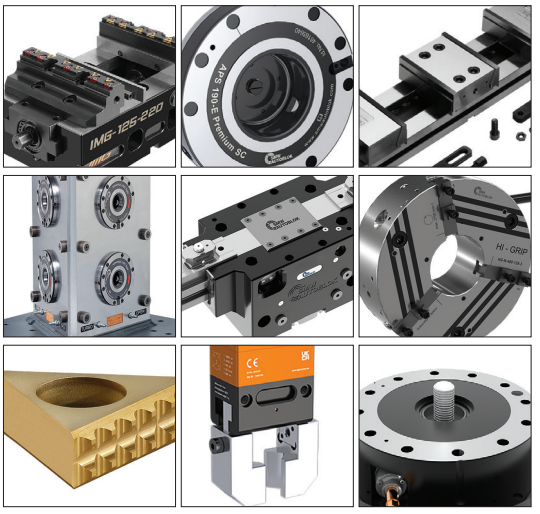

Check it all out at **IMTS booth #431617.**

A LITTLE BETTER. A LITTLE SMARTER.

PROBLEM 5: Legacy Shop Management Software Prevents Modernization

Shops that have not updated ERP systems recently may not be able to take advantage of tools such as machine monitoring, automated quoting or AI integrations that can streamline front-office operations.

LOCATION		SOLUTIONS
EAST BUILDING Software	**Aisle 133100**	ERP systems, scheduling software
	Aisles 135700–135800	Enterprise MES and ERP platforms, production management systems
	Aisle 133300	Enterprise ERP platforms
	Aisle 133000	Cloud-native ERP, quoting-first shop management platforms

PROBLEM 6: Winning Complex Work in the Aerospace and Medical Industries

The aerospace and medical industries expect tighter tolerances and more documentation and give increasingly more complex GD&T callouts. Shops that work in these end markets (or those that want to break into them) must ensure they have the machines, software and quality systems that can meet these industries' needs.

LOCATION		SOLUTIONS
EAST BUILDING Quality Assurance	**Aisle 134100**	CMM platforms, vision-based inspection systems
	Aisle 134300	CMMs, on-machine probing systems, quality management and documentation software
	Aisle 134200	Surface finish measurement instruments, bench gages, optical comparators, 3D scanners
SOUTH BUILDING Metal Removal	**Aisle 339400**	Swiss-type turning machines, CNC controls
	Aisles 339100–339200	Turn-mill machines, multitasking machines, multispindle machines, Swiss-type machines
	Aisles 338500–338600	Five-axis machining centers, horizontal machining centers, multitasking platforms
	Aisles 338300–338400	Five-axis machining centers

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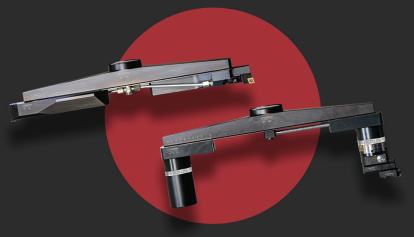

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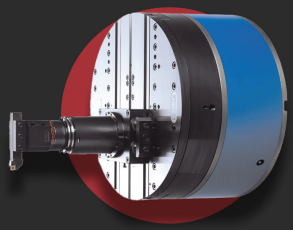

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PROBLEM 7: High Scrap Rates Due to Lack of In-Process Inspection

Installing on-machine probing and inspection cells on the shop floor instead of relegating them to the quality lab can detect quality issues earlier in the production process, saving shops from costly scrap and rework.

LOCATION		SOLUTIONS
EAST BUILDING Quality Assurance	**Aisle 134100**	Shopfloor-rated CMMs
	Aisle 134300	On-machine probing systems, tool setting probes, in-process gaging systems
	Aisles 134600–134700	Tool setting and spindle probing systems, in-process measurement systems
NORTH BUILDING Automation	**Aisles 236600–236700**	Industrial and collaborative robot arms

PROBLEM 8: Difficulty Implementing Automation Without Expertise

Small and medium-sized shops may not have the resources for a full-scale industrial robot integration, while high-mix shops need flexibility in their automation systems. Cobots with low- and no-code programming platforms and turnkey machine tending systems bring the benefits of automation to job shops.

LOCATION		SOLUTIONS
NORTH BUILDING Automation	**Aisles 236600–236700**	Industrial and collaborative robot arms
	Aisles 236700-236800	Collaborative robots, automation engineering platforms
SOUTH BUILDING Metal Removal	**Aisles 338800–338900**	Robot-tended machining cells, automated part-loading systems, flexible manufacturing systems, pallet changers, turnkey robot loader cells





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INDEX *better.**parts.faster.** every.**job.faster.***

PROBLEM 9: Tooling Causes Scrap and Downtime

Unpredictable tool wear and failure, whether due to feeds and speeds, toolholder runout, incorrect coating for the workpiece material or a mismatched coolant strategy, drives up tooling costs, scrap rates and downtime.

LOCATION		SOLUTIONS
WEST BUILDING Tooling & Workholding	**Aisles 431400–431500**	Indexable cutting tools, end mills, turning inserts, drilling systems
	Aisles 431500–431600	Shrink-fit toolholders, hydraulic toolholders, workholding chucks
	Aisles 431900–432400	Cutting fluids, metalworking coolants





PROBLEM 10: Inexperienced New Hires Need Efficient Onboarding

The labor shortage continues to be a struggle for shops. Shops are often hiring new employees without foundational knowledge of machining with the expectation of training them. Technologies such as digital work instructions, simulation tools, conversational controls and other software programs can help lower the barrier to entry.

LOCATION		SOLUTIONS
EAST BUILDING Software	**Aisle 133300**	Multiaxis CAM software with simulation
SOUTH BUILDING Metal Removal	**Aisle 339400**	CNC control with conversational and guided programming interfaces, operator-assist cycles, automatic work-offset calculation systems
	Aisles 338100–338200	Machine tools with integrated operator-assist control ecosystems, guided setup and probing cycles

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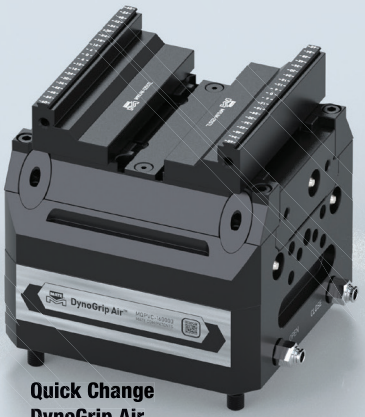

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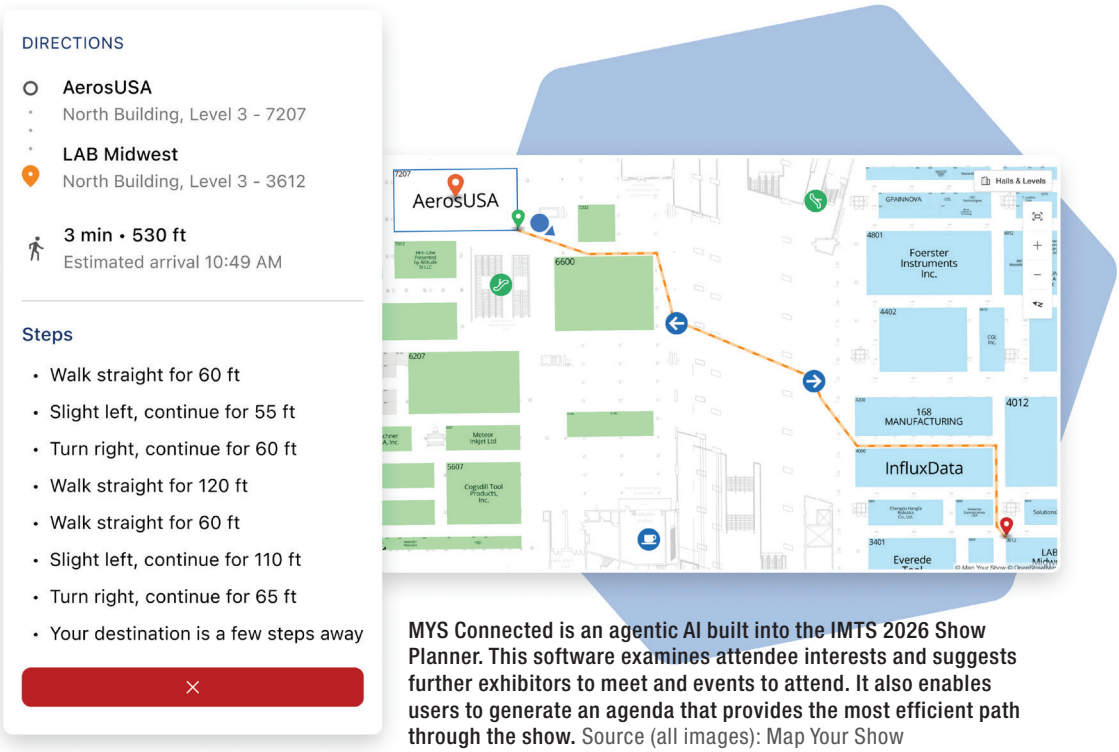


MYS Connected is an agentic AI built into the IMTS 2026 Show Planner. This software examines attendee interests and suggests further exhibitors to meet and events to attend. It also enables users to generate an agenda that provides the most efficient path through the show. Source (all images): Map Your Show

IMTS Success Starts With a Plan

With over 1,800 exhibitors, planning your IMTS visit ahead of time will help you get the most from your time at the show. This year's IMTS Show Planner includes agentic AI to get you started.

EVAN DORAN | SENIOR ASSOCIATE EDITOR

IMTS boasts "literally miles of aisles," says Don Kline, Map Your Show (MYS) CEO, with over 1,000 exhibitors and events spread across McCormick Place's four halls. Its sheer size makes it difficult to navigate without a plan, let alone detect the technology that could become a game changer for your shop. This simple fact is a primary reason behind MYS' development of MYS Connected, an agentic AI show planning platform built into this year's IMTS app and **IMTS.com**.

Making Connections

The most prominent function of MYS Connected is its ability to act as a show planner. Users input an exhibitor they would like to visit or an event they would like to attend, and the software suggests other exhibitors or events that are nearby and address some of the same challenges. It does so, Kline says, through a tagging system that takes into account exhibitor product categories, press releases and more. By combining this information and using an LLM (Kline stresses that no user data is ever fed into the client LLM and user data does not train this LLM), it can generate contextual information for why an attendee might wish to view any of the companies it suggests.

"We're trying to create more discovery for attendees and make sure we're maximizing their investment of the time they spend on site," Kline says. He says this should bring forward many of the discoveries attendees would have on the show floor, enabling them to pay attention to what's at the show rather than spend valuable time figuring out who and what they need to see while they're at IMTS.

The AI system within MYS Connected starts suggesting additional events and exhibitors after an attendee's first selection. Attendees can also consult Ask IMTS, a chatbot trained on IMTS data, for advice on potential exhibitors to see and use these suggestions as a baseline for their schedule. Importantly, the system only offers suggestions, and attendees can approve any that sound useful to their needs or add completely different exhibitors and events. Once attendees have added a few choices to their list, they can use the AI agent's "Plan My Smartest Route" feature to organize these into an agenda.

Mapping the Show

This feature is meant to help attendees avoid repeat crossings of McCormick Place's halls, with the agenda taking into account the locations of different exhibitors and meetings attendees wish to see as well as the time slots of events. It also warns attendees if they are trying to fit too many stops into one day, suggesting attendees add more days to their schedule and prioritize their most important events. From there, it plans out attendees' most efficient agenda and offers directional mapping to navigate the show floor to each stop on the agenda.

Kline recommends attendees fill out their schedules ahead of time, as the outputs for the schedule are saved for offline use. While the agentic AI portion of MYS Connected requires an internet connection to function, the IMTS app will also enable attendees to search for exhibitors offline (useful in case the show's Wi-Fi is slow or cell reception drops).

MYS Connected's directional mapping feature works offline to provide users with the most efficient path between two booths or events at IMTS. This could save thousands of steps, as IMTS is spread across all four of McCormick Place's halls.



You can find MYS Connected as part of the IMTS Show Planner either in the forthcoming IMTS 2026 app or on the IMTS website here: IMTS.com/Planner.

IMTS – International Manufacturing Technology Show
imts.com

Map Your Show
www.mapyourshow.com



Process solutions continue to become more prominently displayed at events such as IMTS.
Source (all images): IMTS

Approach IMTS with a 'Process' Mindset

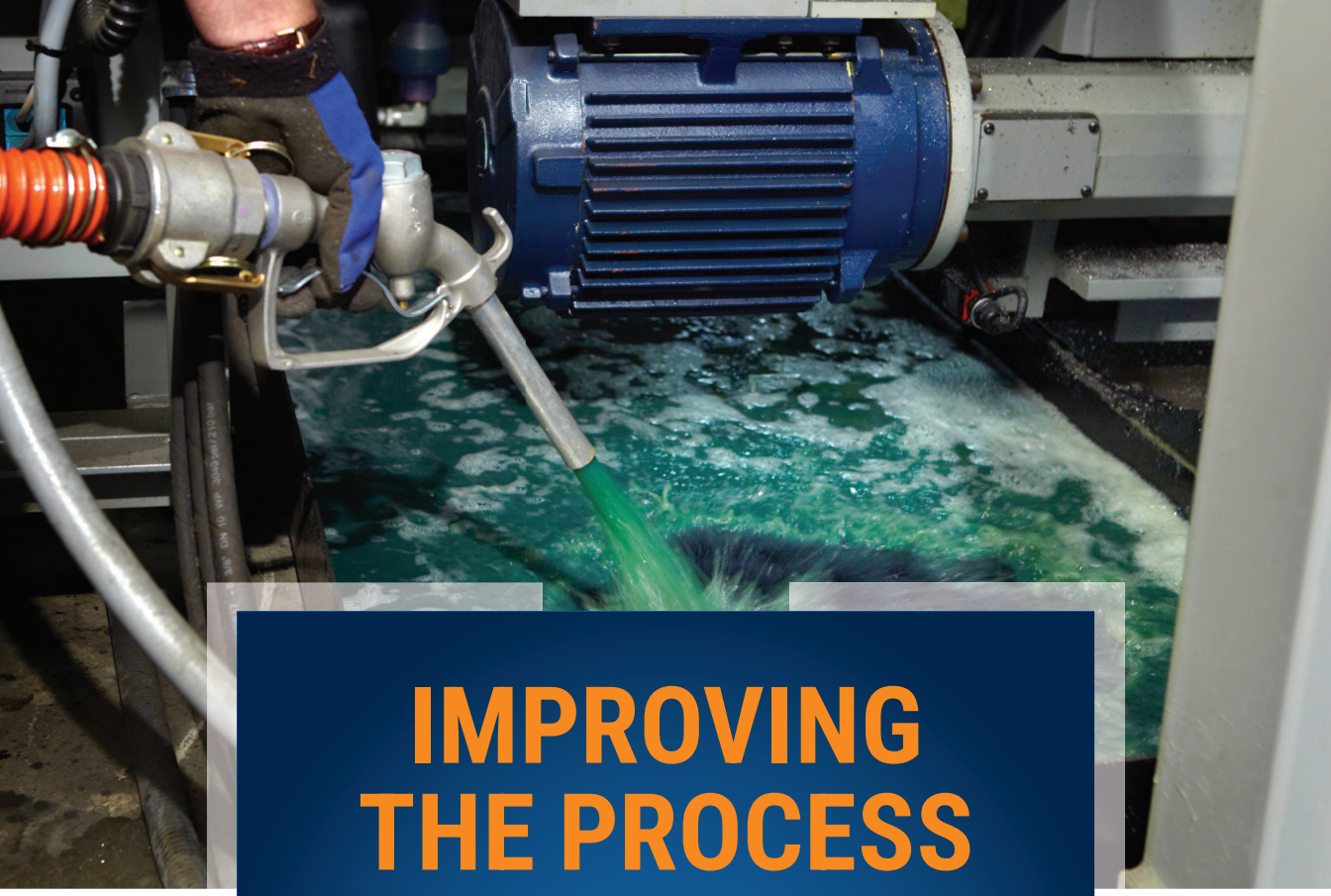
Machine shops must consider the entire process of producing parts beyond the machine tools themselves. All such technology will be on display at the International Manufacturing Technology Show this September.

DEREK KORN | CONTRIBUTING EDITOR

What I've noticed over the years is that exhibitors at the IMTS – The International Manufacturing Technology Show have increasingly focused on highlighting solutions more so than products. Yes, "solutions" sounds like marketing-speak. But if you've attended recent IMTS events, I'm sure you'll agree it's true, whether your company machines high volumes of parts or smaller batches requiring more frequent changeovers/setups.

One way this is represented at the show is in the multiple examples of ways that automation is more than robots. Certainly, robots are shedding the bad reputation of many years ago as they are now more flexible, easier to program and, in some cases, re-deployable to various machines. However, shops are also looking at more equipment such as tool presetters, on-machine part and tool probing and automatic tool changers for B-axis Swiss-type lathes as a way to eliminate manual tasks (and the risk of error) from the machining process. CAD/CAM software also continues to integrate more automated part programming functionality.

Similarly, manufacturers are seeking more efficient measurement/inspection processes.



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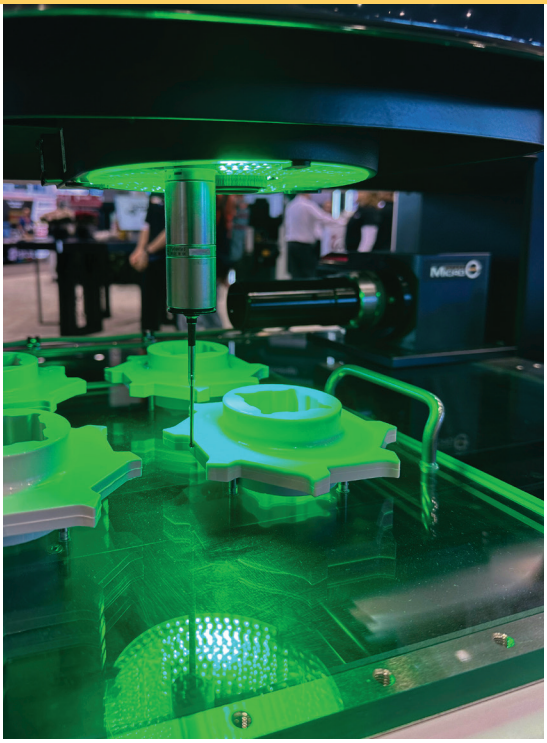
Lights-out machining enables shops to get the most value out of their equipment and employees. But that often means there are many parts in the queue to be inspected. Part measurement can become an early-morning bottleneck that soaks up shopfloor workers' valuable time. This has shops looking to new measurement technology that can speed and simplify part measurement so workers can get back to other duties.

Machine monitoring helps pull it all together. Are your managers relying on gut feelings as they make decisions as to how shopfloor processes should be adjusted or are they using real data such as that pulled from machine tools to make more informed decisions? Even simply knowing and tracking when a machine's spindle is cutting and when it isn't in a given shift can be very helpful. This is the tool not only to bring all data together, but to determine how best to adjust shopfloor practices based on that information.

IMTS – International Manufacturing Technology Show
imts.com



Efficient, automated part inspection is particularly valuable for shops aiming for lights-out machining.

SMALL SHOW REMINDERS

Beyond the typical advice of wearing comfortable shoes at the show given you'll certainly be getting your steps in, here are three other IMTS suggestions:



SCAN THE IMTS SHOW DAILY. This paper is available when you arrive at the show each day. It offers glimpses not only of new products being introduced there but also more general show happenings and articles describing interesting showfloor demonstrations, contests and experiences. Grab a copy.

East and West buildings open at 9:00 a.m.

North and South buildings open at 10:00 a.m.

MIND BUILDING OPENING TIMES. There are different opening times depending on the McCormick Place building. You can get an early start at the East or West buildings to check out software and tooling exhibitors before heading to the North and South buildings to see machine tools and related equipment.



ACCESS THE IMTS SHOW PLANNER. The app at imts.com/planner combines planning and logistics into one easy-to-use tool. You can use it to research and contact exhibitors before the show, explore virtual floor plans, organize personal events and browse conference sessions. Still, remember to roam.

IMTS2026

ACHIEVE THE IMPOSSIBLE

SEPTEMBER 14 – 19, 2026 • MCCORMICK PLACE, CHICAGO



SIX DAYS TO AMPLIFY YOUR KNOWLEDGE

From Lifelong Teacher to IMTS Learner

"IMTS is a great place to learn about industrial AI. You'll meet established people and idea people starting out. You can go, collect ideas, and see the best ones rise to the top."

At **IMTS – The International Manufacturing Technology Show,** manufacturer and educator Jamie Marzilli goes from know-it-all to learn-it-all. Between artificial intelligence technologies and human expertise, he'll discover solutions to bring back to Marzilli Machines – and how to achieve the impossible.

Amplify your knowledge at IMTS on Sept. 14-19, 2026, in Chicago.

SCAN TO

REGISTER

Add Flexibility and Speed to Your Operation with Next-Generation Robotics by Okuma

Okuma's second generation of robotics loaders incorporates updates that enable flexibility and faster processing time for any manufacturing operation. This holds true even for shops with no prior automation experience.

Okuma's second-generation ORL (Okuma Robot Loader) series of robotic loaders automate higher mixes and wider ranges of part sizes thanks to revamped end effectors, workholding devices, and enhanced control systems.

The company's ORL-D II, which is designed for use with turning machines, features a new electrically actuated end effector (part gripping system). This upgrade enables programmable force control, which allows users to output different levels of gripping force to ensure that thin-walled and other fragile parts aren't deformed under maximum gripping force. The enhanced gripper system also raises the end effector's compatibility range without adjustment from the 0.25 inch of a pneumatic end effector to between 2 and 3 inches. The end effector also includes a blow-off module and laser scanner as standard. This scanner can measure part heights, relieving operators of the need to enter part dimensions into the robot's program. Simon Schneider, director of Okuma Factory Automation, says this feature alone could cut changeover time in half.



Moving from a pneumatic end effector to an electric one has increased the capabilities and compatibility of Okuma's ORL-D II. It now performs better with thin-walled and other delicate parts, as well as job mixes that include bars of different sizes. Image courtesy of Okuma.

Okuma's ORL-MC II, which is the company's robotic loader for milling tools, is now compatible with standard pallets, in addition to parts held in flexible stacks. The robot's upgraded end effector enables the robot to work with both palletized parts for high-requirement work and individual parts without changeover time. A single robot end effector can load both palletized parts and flexible stack parts, and the system can treat every shelf in its 18-shelf rotating station as a separate SKU for high-mix workloads. The system's capacity depends on part size, reaching up to 90 parts at the high end. Compatible pallets are those up to 8.5 inches wide, 8.0 inches deep, 9.0 inches tall, and 40 pounds.

Both the ORL-D II and ORL-MC II are compatible with Okuma's updated HMI system, QuickTouch. Schneider compares QuickTouch to a smartphone app in its useability, with drop-down menus and stored part-specific data to ensure it takes "less than 10 clicks to set up a new part." This reduces downtime and setup time, and Schneider says the software is streamlined enough that even people with no robotics or programming experience can run it.

For more information about the second-generation ORL series, follow the link:
https://www.okuma.com/products/okuma-robotic-systems

EXPAND POSSIBILITIES WITH THE OKUMA MB-100V



Discover how much more your shop can do when power, stability, and size come together in the Okuma MB-100V.

- Double column construction delivers exceptional rigidity with less overhang for stable, high-accuracy machining.
- Efficient chip evacuation and advanced thermal countermeasures help maintain precision from the first part to final pass.
- Operator-friendly design includes large windows and doors, and a rear access panel for ease of service.
- Single-source Okuma engineering — machine, spindle, motors, drives, and OSP-P500 control — simplifies operation and is backed by Okuma Care 24/7 support.

IMTS2026 BOOTH #338500

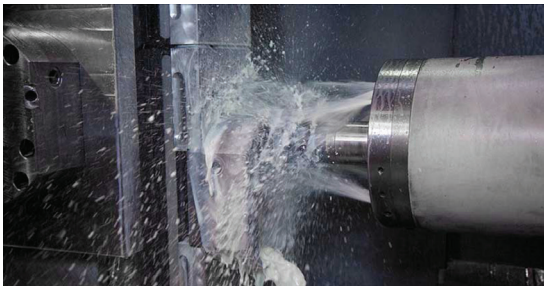
OKUMA OPEN POSSIBILITIES

Metalworking Fluid Tackles the Challenges of Titanium Machining

Addressing heat buildup at the intersection of the tool tip and the workpiece are essential for the best results.

Goshen, NY – Titanium and high-nickel alloys burn through inserts and cutting tools like no other materials, especially when roughing. As a result, expensive cutting tools and inserts are often changed earlier than necessary simply as a precaution.

The Skytec family of metalworking fluids was developed by a team of experts including chemists, engineers, and application technicians, and tested by well-known machine tool builders and aerospace OEMs. Vasco Skytec H 600 draws on the plant-ester-based Vasco range, and B-Cool Skytec 500 on the mineral-oil-based B-Cool range. Both are designed to significantly extend tool life without risking expensive aerospace parts.



Blaser Swisslube's B-Cool Skytec 500 (top) is a mineral-oil-based formula designed to significantly extend tool life without risking damage to expensive aerospace parts.



These Skytec products are the ideal metalworking fluids for titanium machining because they minimize tool wear and reduce the number of tool changes without compromising process reliability. They are also suitable when machining aluminum, steel and nickel-based alloys. The fluids perform without foam even in high-pressure systems greater than 1,000 psi.

In real production tests, tool life immediately increased by more than 25 percent when roughing titanium. When this initial optimization is followed by an adjustment of the machining parameters in cooperation with Blaser's application engineers, it is possible to also reduce the machining costs per component. Optimizing both the tool life and machining time per component brings the best possible leverage effect of the metalworking fluid into play.

B-Cool Skytec 500 has additionally been optimized for long term stable use in coolant reclamation and aluminum chip briquetting systems. The remaining coolant from the chips can be filtered and re-used without the need for tank side additives thus providing additional value and sustainability benefits.

Qualifying tests by independent external laboratories are common before aviation approvals can be obtained for new metalworking fluids. Many of these necessary qualification tests and subsequent approvals have already been successfully achieved by Blaser Swisslube.

Scan to learn more about the Skytec family of metalworking fluids, or visit:blaser.com/buy/

Blaser. SWISSLUBE



Your approved partner for the aerospace industry.

Let us show you that the right metalworking fluid is smart investment, big results. A powerful lever on your overall costs, with positive effects on tool life, cycle time, workpiece quality and machinist satisfaction.

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blaser.com/aerospace



IMTS2026
Booth 431228

Our Liquid Tool. **Your Success.**

Milling & Machining Centers

CHRIS PASION | MANAGING EDITOR | cpasion@gardner.media

Mill-Turn Streamlines Small, Complex Part Production

Methods Machine Tools showcases the Nakamura-Tome JX-50 five-axis mill-turn, marking the machine's North American debut. The ATC-type, B-axis JX-50 combines compact size, high speed and advanced capabilities well-suited for small, complex production parts.

Measuring 13.9' × 7.8' (including chip tank and chip conveyor), the JX-50 features a twin-spindle configuration with an upper tool spindle and lower turret.



The X-axis on the right spindle enables simultaneous machining without interference, keeping more tools in the cut per part.

Standard features include Nakamura-Tome's NT Smart Cube, a 30,000-rpm compact tool spindle measuring 15.7" long, combined with a 9,000-rpm milling and Y-axis lower turret and 6,000-rpm left and right spindles. The automatic tool changer holds 60 tools standard with options up to 119 tools. Nakamura-Tome's ChronoCut software is said to provide a chip-to-chip time of 3.3 seconds.

Nakamura-Tome CEO Shogo Nakamura provides a live presentation about the JX-50 at IMTS, with live cutting demonstrations continuing throughout the week.

Methods Machine Tools has served as the exclusive importer of Nakamura-Tome machining centers to the United States since 1983, installing more than 6,000 machines throughout the country.

| Methods Machine Tools Inc. | methodsmachine.com
Booth 339033

Multitasking Mill-Turn Expands Single-Setup Machining Access

DN Solutions showcases the DNX 2100SB multitasking mill-turn for complex machining applications. The DNX 2100SB is designed to make single-setup machining more accessible, allowing manufacturers to consolidate jobs from multiple turning and machining centers onto one machine.

The DNX 2100SB features twin turning spindles and a milling spindle with 0.0001-degree indexing for six-sided machining of complex parts in a single setup.



This configuration provides increased flexibility and reduced setup times — a combination well-suited to high-mix, low-volume environments.

The indexing milling spindle also supports a reduction in tooling costs compared to traditional turning centers with live tooling turrets. One tool can be used for both the main and subspindle, and one tool handles radial and axial milling, allowing standard tools to be used for complex applications without the need for specialized angular toolholders.

With a maximum machining capacity of 520 × 1,100 mm (20.5" × 43.3"), the DNX 2100SB is well-suited for a range of parts across a variety of industries. The machine comes standard with a 12,000-rpm Capto C6 milling spindle; turning spindles with 8" or 10" chucks are available.

The unit being featured is equipped with the Siemens Sinumerik One control, with the FANUC 0i-TF Plus available as an option.

| DN Solutions | dn-solutions.com
Booth 338919

DRIVE RESULTS WITH INNOVATION

Secure the competitive edge with the industry's most advanced manufacturing solutions built for performance and growth. Visit Mazak at IMTS in booth #338300 to explore the latest Mazak machine tool technology, scalable automation solutions, secure digital connectivity and world-class customer support.



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Gain the Unbeatable Combination of
VALUE AND PERFORMANCE

Visit us at
IMTS 2026
September 14-19, 2026
Booth #338300

Mazak

Advanced Machining Solutions Accelerate Production Output

Mazak showcases advanced machine tool, automation and digital solutions designed to help manufacturers increase throughput and do more with fewer resources.

Live, real-world part cutting demonstrations showcase Mazak machines for multitasking, full five-axis machining, vertical and horizontal machining, CNC turning and Swiss-type production turning. Mazak machines offer seamless automation integration, and the company spotlights several productivity-enhancing solutions that range from simple bar feeders and gantry loaders to standalone cobot systems and full multi-machine palletized cells.

"In an environment of rising labor costs, tariffs, inflation and other economic demands, we maintain our focus on providing high-value, high-performance and productive solutions," says Dan Janka, president of Mazak. "Today's shops are under tremendous pressure to increase their production in less time. To succeed, they need to do more with less, and they will accomplish that with the highly productive machines and automation technologies that Mazak will showcase at IMTS 2026."

Among the 15 machines Mazak features are models from its Neo Series, Ez Series, multitasking machines and Syncrex Swiss-style Production Turning Series. Neo Series machines result from Mazak continuous improvement and redesign of existing models in line with current needs of manufacturers. Neo Series machines at the show include the Integrex i-200ST Neo multitasking machine outfitted with gantry loader automation and the HCN-5000 Neo horizontal machining center paired with a Mazak Multi-Pallet Pool compact multilevel pallet stocker system.

From the Ez Series, Mazak brings its VC-Ez 20 vertical machining center equipped with an optional Mazak Mazatrol SmoothG CNC control and a two-pallet changer. The machine provides ease of operation, fast installation and long-term reliability for leveling up performance in any production environment.



Multitasking technology is one of Mazak's core strengths, and the company demonstrates its "Done-in-One" part processing on the QRX-50MSY and QTE-100MSY multitasking machines. The QRX-50MSY provides optimal performance for shops machining small parts such as EV input shafts, mid-shafts, valve fittings and other components exceeding 2" diameter.

Mazak pairs its QTE-100MSY with a gantry loader. The machine sports a second turning spindle, milling capability and Y-axis off-centerline machining. Its main spindle features a 6" chuck and 1.77" (45-mm) through-hole for efficient processing of smaller parts.

The company's Quick Turn 350 multitasking machine is outfitted with the Ez Loader compact, cobot automation system. It uses a cobot arm, vision sensor and dedicated software to safely improve production.

Two Variaxis machine models, the Variaxis C-700 and Variaxis i-800T, represent Mazak vertical machining center technology. Both machines are first steps into five-axis machining for shops and are highly capable machines with versatile sheet-metal enclosures ready for a comprehensive range of automation solutions. Mazak offers several spindle options for the machines to help shops find the suitable balance of speed and power. The "T" model of the Variaxis i-Series machines features turning capability on their tilt/rotary table.

Mazak Swiss-type production turning is on display through a demonstration of four models from the Syncrex Series of machines. For the high-speed production of small, precise parts, Mazak Syncrex Series encompasses machine bar stock capacities ranging from 0.393-1.5" (10-38 mm).

In addition, a wire arc additive manufacturing cell that Mazak developed in partnership with Oak Ridge National Laboratory incorporates two Mazak VC-Ez vertical machining centers along with a compact automation system and integrated metrology. Well-suited for emergent operations, the cell performs both subtractive and additive part processing operations and supports easy mobile deployment into remote areas.

To grow parts and part features, the cell uses a VC-Ez 20X five-axis machine equipped with wire arc additive technology. Once parts are grown, the compact system moves them to a standard five-axis VC-Ez 20X milling machine for finish machining.

Mazak also spotlights its full range of digital and cybersecurity solutions that optimize machine utilization while keeping manufacturing operations safe.

Mazak North America | mazak.com
Booth 338300

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Compact efficiency to high-capacity production.

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Connected: REAL-TIME DATA. SMARTER DECISIONS.

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Efficient: GREATER THROUGHPUT. LESS DOWNTIME.

Expandable: ADD APC/ATC CAPACITY AS YOU GROW.

IMTS2026
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338520

8 Models: 250mm to 1,250mm Tables



Powered by Arumatik-Mi Control
Powerful, Intuitive, Easy-to-Use

ACCURACY: ±0.002mm (±0.000079") / Full Stroke, REPEATABILITY: ±0.001mm (±0.000039")

Contact us: +1 847 520 7755 kitamura-machinery.com

Horizontal Boring Mill Boosts Productivity in Large-Part Machining

Fives showcases its Giddings & Lewis horizontal boring mill platforms (HBMs) designed to boost productivity and reduce setup time in large-part machining.

Giddings & Lewis HBMs use a modular platform with configurable travel, headstock, table, pallet and control options for application-specific setups. This configurability supports a wide range of materials and operations — from hard to soft metal applications and milling to turning operations — enabling manufacturers to produce more with fewer setups and respond quickly to changing production needs.

The family of machines is built on rigid platforms utilizing large, robust castings for excellent damping characteristics, ribbed column structures to resist torsional deflection and hydrostatic tables for heavy load capacities. The construction is well-suited for heavy cutting while achieving high accuracy and optimized surface finish quality.

To maintain precision over long machining cycles, the Giddings & Lewis spindle growth compensation technology automatically adjusts for thermal variation to improve machine accuracy, surface finishes and bore depths. A wide range of attachments — including contouring, right-angle heads and multiaxis heads — expand machining capability while steamlining setup.

With options for automation, pallet systems and advanced CNC controls, the Giddings & Lewis HBMs are designed to maximize cutting time and throughput in demanding manufacturing environments. The platforms are well-suited for manufacturers machining large, complex components requiring rigidity, accuracy and process flexibility.

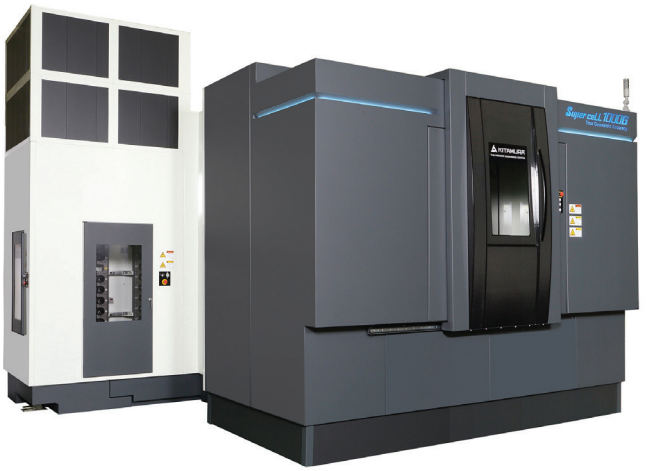
Fives Giddings & Lewis | fivesgroup.com
Booth 338578



Heavy-Duty HMC Targets Large-Part, High-Precision Manufacturing

Kitamura Machinery's Supercell-1000G heavy-duty five-axis horizontal machining center is a high-rigidity platform engineered for large-part, high-precision manufacturing.

Designed for aerospace, defense, energy, oil and gas, renewable energy and heavy industrial applications, the Supercell-1000G combines large machining capacity with micron-level accuracy. The machine features a 45-ton boxway construction, reinforced trunnion-style tilting table, twin-drive axis architecture, full-scale feedback, ballscrew cooling and thermal compensation systems designed to maintain accuracy during continuous heavy-cutting operations.



The machine accommodates workpieces with diameters up to 1,080 mm × 1,050 mm (42.5" × 41.3") and weighing up to 1,500 kg (3,300 lbs). Linear positioning accuracy is rated at ±0.002 mm (±0.000079") with repeatability of ±0.001 mm (±0.000039"), while rotary-axis repeatability reaches ±4 arcseconds.

Power is provided through Kitamura's gear-driven spindle technology, available in a standard 12,000-rpm configuration producing 585.9 Nm of torque or an optional 8,000-rpm spindle generating 1,225.9 Nm for heavy-duty material removal.

Productivity features include a standard 122-tool automatic tool changer, dual-pallet system and expandable automation capabilities.

Kitamura Machinery of USA Inc.
kitamura-machinery.com | Booth 338520



HWACHEON

12 / 15 inch (Chuck Size)



VT-450

Type of Spindle: A2-8, A2-11
Chuck Size: 12, 15-inch Chuck
Specification: MC
Machine Type:
* Left Side Type
* Right Side Type
* R + L (Two Spindle Version)

18 inch (Chuck Size)



VT-650

Type of Spindle: A2-11
Chuck Size: 18, 15, 21, 24-inch Chuck
Specification: MC, MG
Machine Type:
* Left Side Type
* Right Side Type
* R + L (Two Spindle Version)
* Magazine Available
* Y-Axis Available

24 / 32 inch (Chuck Size)



VT-950+

Type of Spindle: Ø380mm Flat
Chuck Size: 24, 32-inch Chuck
Specification: MC, MG
* High-speed Type * High-torque Type
* Back & Side Type Chip Conveyor
* Magazine Available

32 / 50 inch (Chuck Size)



VT-1150+

Type of Spindle: Ø520mm Flat Chuck
Size: 40, 32, 50-inch Chuck
Specification: MC, MG
* Giga-torque Type
* Back & Side Type Chip Conveyor
* Magazine Available



VT-650YMC

Various Machining Applications Possible with Y-Axis

Type of Spindle: A2-11
Chuck Size: 18, 15, 21, 24-inch Chuck
Specification: YMC, MG
* Magazine Available

*The design and specifications of the products are subject to change without notice for product improvement.



VT-1350/1650/2000

Vertical Turning Center Extra Large & Extra Heavy Parts (Interior photographed above) with W-Axis

Chuck Size:50-& 80-inch manual Chuck

* Ultra power table for heavy duty cutting
* High rigid structure
* Perfect milling ram for high productivity

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IMTS BOOTH #339148

Five-Axis Machining Center Provides Efficient Production of Complex Parts

Hurco Co. showcases its BM500U five-axis machining center. Designed for efficient production of complex parts, the machine is showcased alongside an eight-station automatic pallet changer that facilitates unattended operation.

The BM500U uses an integrated trunnion table design intended to promote accuracy and allow for increased Z-axis clearance. With a high work-envelope-to-floor-space ratio, the machine includes a 19.7" (500-mm) rotary tilt table and X-, Y-, Z-axis travels of 33.5" × 19.7" × 19.7" (850 × 500 × 500 mm).



The BM500U provides capability for both five-axis simultaneous and 3+2 five-axis machining. A 15,000-rpm, 11-kW Big Plus direct drive spindle offers robust material removal rates. Precision and accuracy are supported by 0.050-µm resolution absolute linear encoders. An automatic tool changer provides capacity for 60 tools as standard, with a 96-tool version optionally available.

The BM500U is paired with a rotary-style automatic pallet changer with eight stations. Capable of serving a range of machine types, the system uses 12.6" (320-mm) pallets that accommodate parts up to 17.7" (450 mm) in diameter and 15.7" (400 mm) in height.

The BM500U also comes with linear scales, a spindle cooler, through-spindle air and coolant, flood coolant and an air mist collector.

Hurco Co. Inc. | hurco.com | Booth 338319

Five-Axis Machine Streamlines Large-Part Manufacturing

Select Machining Technologies' Soraluce FP60 five-axis floor-type milling, boring and multitasking machine is designed for large-part manufacturers. The FP60 can be configured to integrate milling, boring, turning and even grinding — enabling multiple machining operations in a single setup to improve accuracy and efficiency while requiring less floor space.

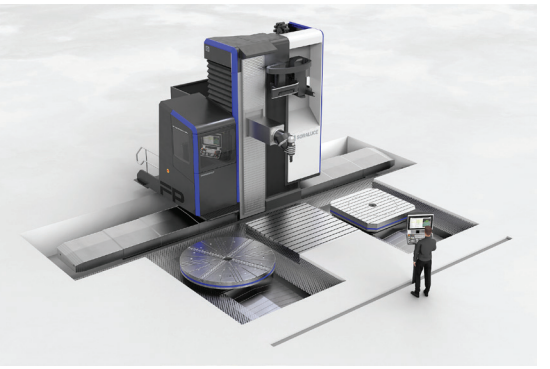
Five-axis contour milling capability further differentiates the FP60 from traditional boring mills, with its two-axis indexing head rated at 80 hp with a maximum spindle speed of 7,000 rpm. It is compatible with 300 interchangeable heads designed and manufactured in-house, along with an automatic head changer. A 60-tool automatic tool changer supports vertical and horizontal tool changes.

The FP60 is configured with 236" (6,000 mm) of longitudinal travel, 126" (3,200 mm) of vertical travel and 63" (1,600 mm) of cross travel. Its traveling-column architecture enables longitudinal travel to be extended to 472" to support larger work envelopes.

Multiple table configurations are available, including floor plates, fourth-axis milling tables with linear movement and mill-turn multitasking tables with linear movement. Pendulum machining can also be enabled through partitioned work zones.

Structurally, the FP60 employs a monoblock cast-iron column design, linear guideways and a dynamic transmission system intended to balance rigidity and responsiveness. To address vibration during heavy cuts, Soraluce's DAS+ (Dynamic Active Stabilizer) system is designed to eliminate chatter for surface finishes and extend tool life. The FP60 is equipped with a Heidenhain TNC7 control. Select Machining Technologies is the U.S. partner for Soraluce.

Select Machining Technologies
selectmachiningtech.com | Booth 339100





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Toolroom Machining Center Combines Manual, CNC Operation

Trak Machine Tools displays the Trak TMC toolroom machining center, which is designed specifically for one-of-a-kind and high-mix, low-volume machining. Built around the Trak TMC, the ProtoTrak RMX CNC combines the enclosed structure and automatic toolchanging capability of a machining center with hands-on workflow flexibility.

Unlike conventional VMCs, the Trak TMC enables operators to move seamlessly between manual, conversational and full CNC machining. In Toolroom Ops mode, users can work with optional electronic handwheels, digital readout (DRO) functionality, selectable two- or three-axis CNC operation and Traking, a specialized feature that lets machinists manually control feed rate through the programmed tool path using the handwheels. In Production Ops mode, the machine functions as a fully enclosed machining center with a 16-tool automatic tool changer and ANSI-compliant interlocked operation. Sophisticated canned cycles enable programs to be written right at the machine for up to four-axis simultaneous machining.

The Trak TMC is engineered for shops that need flexibility without sacrificing capability. Rigid construction, precision ballscrews, a 40-taper spindle and spindle power up to 22.5 hp are designed to provide strong cutting performance, optimal finishes and precise tolerances. Optional features include through-spindle coolant, a 12,000-rpm spindle, probing systems and fourth-axis capability.

The TMC also features integrated probing capability, enabling users to automatically measure part features during machining operations without leaving the control.

Trak Machine Tools | southwesternindustries.com
Booth 338032



VMC Supports Complex Part Production

Milltronics' VM250IL-5X five-axis vertical machining center is optimized for complex part geometries. The machine pairs responsive five-axis machining with an in-line spindle and the Inspire+ control.



The VM250IL-5X incorporates a rotary table with +30/-110 degrees of rotation in the A-axis and 360 degrees in the C-axis. An in-line Big Plus 40-taper spindle offers a maximum speed of 15,000 rpm, 14.8 hp and 35.3 ft-lbs of torque, allowing for high metal removal rates and optimal surface finishes.

As the largest in Milltronics' family of five-axis machining centers, the VM250IL-5X provides a 9.8" (250 mm) table with a 24"-maximum spindle-nose-to-table distance. To promote high part quality, the machine features a rigid design with widely spaced linear roller guideways to support the table and saddle. The guideways span the full travel length of each axis.

The machine integrates the Inspire+ CNC control platform, including an advanced motion engine that optimizes machine movement. Inspire+ features the latest evolution of Milltronics' conversational programming platform, while also enabling programming via G and M code.

Milltronics USA Inc. | milltronics.com | Booth 338319

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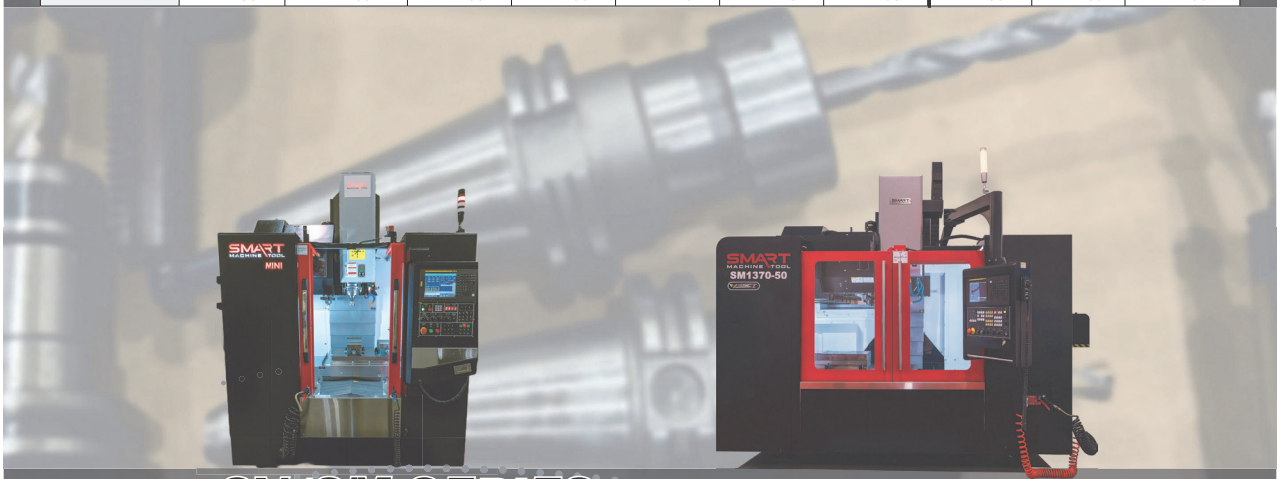
Booth 338119



NL SERIES TURNING WITH MILLING

	3-Axis							Y-Axis/Sub Spindle		
SPECS	NL2000BM	NL2500M/750	NL3000BLM	NL3500BM	NL4000M	NL5000LM	NL6000XLM	NL2000BSY	NL2500SY	NL3500BY
PRICE	~~$119,800~~	~~$139,800~~	~~$179,800~~	~~$229,800~~	~~$229,800~~	~~$299,800~~	~~$429,800~~	~~$179,900~~	~~$199,900~~	~~$319,900~~
IMTS PRICE	$94,800	$129,800	$159,800	$189,800	$209,800	$229,800	$379,800	$159,900	$179,900	$229,900
CHUCK SIZE	10"	10"	12"	15"	18"	21"	24"	8" / 8"	10" / 8"	15"
BAR CAPACITY	3"	3.2"	4"	4.6"	4.6"	6.5"	6.5"	2.6"	3.2"	4.6"
MAX LENGTH	20"	27.6"	41"	60"	45"	83"	126"	28"	28"	58"
MAX DIAMETER	15"	17.7"	17"	20"	25"	25.5"	35.4"	16"	15.5"	17"
SPINDLE MOTOR	25 hp	47 hp	47 hp	47 hp	60 hp	60 hp	73 hp	25 / 20 hp	35 / 20 hp	40 hp
SPINDLE RPM	3500	4000	2800	2000	2000	1500	1200	4500	4000	2000
TURRET	BMT 55	BMT 65	BMT 65	BMT 65	BMT 75	BMT 75	BMT 85	BMT 55	BMT 65	BMT 65



SV/SM SERIES VERTICAL MACHINING CENTERS

	SVs 40 Taper							SMs 50 Taper			
SPECS	SV-1	SV-2	SV-2YT	SV-3	SV-4	SV-6	SV-2100	SM 1370	SM 1682	SM 2082	SM 2110
PRICE	NEW!	NEW!	NEW!	~~$105,900~~	~~$115,900~~	~~$189,900~~	~~$249,900~~	~~$209,900~~	-	-	-
IMTS PRICE	$59,900	$76,900	$84,900	$95,900	$109,900	$169,900	$239,900	$199,900	$269,900	$299,900	$349,900
X-Axis Travel	23.6"	27.6"	31.4"	41.3"	51.2"	63"	78.7"	51"	63"	81"	82.7"
Y-Axis Travel	17.7"	17.7"	19.6"	20.5"	25.6"	31.5"	40.1"	27"	32"	32"	40.1"
Z-Axis Travel	19.7"	19.7"	19.6"	20.5"	23.6"	31.5"	32.28"	26"	26"	26"	32.3"

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HMCs Boost Rigidity, Accuracy for Heavy-Duty Production

Niigata Machine Tools' N-Series horizontal machining centers — including the N500, N600 and N700 — are engineered for rigidity, accuracy and productivity in heavy-duty machining applications.

Built around Niigata's "box-in-box" construction, the N-Series is designed to achieve structural rigidity with minimal deformation across the X- and Y-axes. This design, combined with a rigid T-shaped mono-cast base featuring a honeycomb structure and three-point leveling, is said to provide optimized stability without the need for a special foundation.

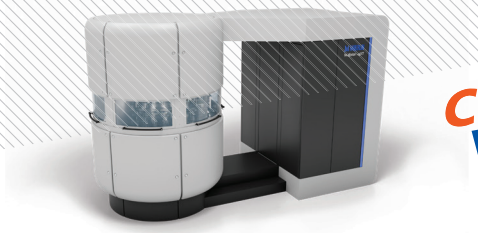
At the heart of each N-Series machine is a Big Plus spindle, providing the speed, power and precision required for a wide range of machining applications — from roughing to high-accuracy finishing. High-speed roller guideways with rapid traverse rates on all axes are designed to improve productivity, enabling faster cycle times while maintaining machining stability. The N-Series comes standard with the FANUC 31i-B controller and specialized, friction-free way covers.

Niigata USA | niigatausa.com | Booth 338546



Mikron Multistar neXT

The neXT level with unique combination of speed & flexibility



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MIKRON MACHINING

VMC Supports Cost-Effective CNC Production

Knuth Machine Tools USA showcases its X.Mill T 1000 FA VMC designed for workshops looking to enter reliable CNC manufacturing without the cost and complexity of high-end systems. The machine is designed to provide a balance of speed, rigidity, accuracy and flexibility.

Built for production work, the machine features a 10,000-rpm spindle paired with a 14.8-hp main drive, providing the power and responsiveness needed for demanding milling applications. Fast-axis rapid movements and a 20-station automatic tool changer support efficient cycle times and reduced downtime, making it well-suited for both batch production and continuous manufacturing environments.



The machine uses C3 preloaded ball screws, achieving positioning accuracy of ±0.0002" and repeatability of ±0.00012". This level of consistency makes it well-suited for tight-tolerance components where repeatability and reliability are critical.

The FANUC control system is said to reduce operator training time and simplify shopfloor integration. Features including an enclosed work area, chip conveyor, central lubrication system, electronic handwheel, coolant system, USB connectivity and signal tower light support smooth day-to-day operation with minimal downtime.

Knuth Machine Tools USA Inc. | knuth.com
Booth 338012



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HMC Enables Complete Part Processing in a Single Setup

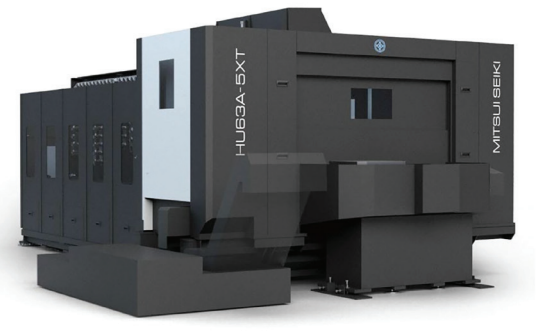
Mitsui Seiki USA showcases the HU63A-5XT five-axis horizontal machining center. This high-precision mill-turn system provides aerospace manufacturers with accurate milling and turning capabilities for complete part processing from roughing to finishing in a single setup. This is especially important to shops manufacturing engine cases and housings where repeatability is essential to reducing the clamping errors that can lead to mismatched components and scrap.

The HU63A-5XT offers 900-mm X-/Y-/Z-travels with simultaneous five-axis machining capabilities and features a high-torque spindle delivering up to 1,081 Nm with ±0.001-mm positioning accuracy.

Capable of machining hard-to-cut materials such as titanium, the HU63A-5XT supports cutting feed rates between 0.1-10,000 mm/minute in the X-, Y- and Z-axes. Rapid traverse rates in the X-axis can reach 12,000 mm/minute while the Y- and Z-axes travel up to 24,000 mm/minute. Combined with 2,160 degrees/minute for the A-axis and 3,600 degrees/minute for the B-axis, the mill-turn is said to deliver high precision at considerable speeds. This fully automated machining center is equipped with 630-mm square pallets with an automatic pallet changer and automatic tool changer as standard.

The machine, including two APCs and a chip conveyor, measures 5,700 mm × 4,700 mm × 3,450 mm with pallet height ranging from 1,500 mm (APC side) to 1,480 mm (M/C side). Powered by the FANUC Series 501 iS-A controller — designed to work with high-speed complex multitasking machines — the HU63A-5XT also performs drilling, boring, tapping and reaming operations.

Mitsui Seiki USA Inc. | **mitsuiseiki.com**
Booth 338700



Dual-Spindle Bridge Mill Enables Precise Micro-Hole Machining

Nomura DS's S-500D dual-spindle bridge mill is designed for micro-hole machining. The machine pairs HSK-E32 tooling with 38,000-rpm direct-drive ultrasonic spindles. Ultrasonic assistance produces accurate micro holes with improved surface finish, particularly in hard and brittle materials that resist conventional drilling.



The two-head construction places two spindles in a single footprint with independent X-, Y- and Z-axis operation. Shops gain the output of two machines without the floor space, tooling duplication or operator overhead of running separate assets.

While the S-500D serves a range of precision applications, its capabilities are especially relevant to semiconductor component manufacturing where micro hole geometry and repeatability directly affect downstream processes. The machine is well-suited to medical device, aerospace and electronics work requiring tight tolerances at small scales.

Core specifications include 700- × 500- × 200-mm travels, a dual 500- × 500-mm table pattern and a Mitsubishi M80 control with standard 3D graphics, tolerance control and Navi Mill conversational programming.

Nomura DS | nomura-ds.com
Booth 338230



Portal Milling Machine Enables Precise Machining of Large Structures



Zimmermann Inc. displays its FZU22 five-axis portal milling machine, which is well-suited for machining various workpiece shapes, sizes and materials. Aluminum, plastic, wood and other substrates can be processed, as well as finishing carbon fiber-reinforced and other composite materials. The overhead gantry provides precise production of models and molded parts. A standard machine includes a tool changer for 24 tools and a CNC from Siemens or Heidenhain for full motion control and tracking. A specialized five-axis milling head with a 15-kW spindle mills complex contours and tight pockets in large molds.

The FZU22 offers a working range from 71-98" in the X-axis, 118-138" in the Y-axis and 49" in the Z-axis. A feed rate of 2,756 ipm in the X- and Y-axes is standard, while acceleration on the machine reaches a maximum of 118-197 in/sec². With a compact footprint of 11 × 15', the machine fits in small shop spaces with minimal foundation requirements.

Optional equipment includes a touch probe, tool measuring system, work area cover, tool changer, chip conveyor, mist/dust extraction system, minimum quantity lubrication and a vacuum system.

Zimmermann Inc. | zimmermann-inc.com
Booth 339336

Five-Axis Machining Center Demonstrates High-Precision Capabilities

Takumi showcases its U800 five-axis machining center, which features a rigid true gantry design and 20,000-rpm HSK-63A spindle. The machine is designed to provide demanding surface finishes common to die/mold, aerospace and medical applications.

The U800's spindle incorporates Takumi's iSpin III intelligent thermal compensation system to offset temperature-driven spindle growth and variations in ambient temperature. A Renishaw RMP400 high-accuracy probe simplifies setups and improves process control. Additionally, the U800 includes a 64-station automatic tool changer as standard, with a 96-station version available optionally.

A one-piece casting and double-column design allow the U800 to achieve high cutting feeds while maintaining optimized surface finishes. Roller-type linear ways provide a larger contact area compared to a ball-type design, supporting faster machine movements, greater rigidity and smoother linear motion. A contactless, magnetic direct drive on the A- and C-axes promotes zero backlash during five-axis machining, allowing for mirror finishes.

Well-suited for large components with complex geometries, the U800 provides a larger envelope than other machines in its class, accommodating workpieces to a maximum diameter of 45.3" (1,150 mm) and height of 27.6" (700 mm). The U800 is available with either a Heidenhain TNC7 with a 24" LCD or Siemens Sinumerik One NCU1760 with a 15" LCD.

Takumi USA | takumiusa.com | Booth 338319



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Turning Centers

CHRIS PASION | MANAGING EDITOR | cpasion@gardner.media

Multispindle Machine Boosts Output for Small-Parts Production

Index Corp.'s Traub MS12-4 boosts the output of the company's existing Traub TNL Series sliding/fixed headstock lathes. Featuring four main spindles, four tool turrets, two or four counter spindles and up to four Flex-WT flexible tool carriers, the Traub MS12-4 offers high productivity for manufacturers of a variety of small parts.

Accommodating barstock to a maximum diameter of 0.51" (13 mm), the Traub MS12-4 effectively combines four Traub TNL12 single-spindle sliding headstock lathes into a single machine, the company says. Each of the four main spindles features an integrated Z-axis and enables machining in fixed or sliding headstock operation. The main spindles are each served by their own tool turret with an X-axis, interpolated Y-axis and optional Z-axis. Additionally, the machine's counter spindles and Flex-WT carriers use a linear three-axis system that provides movement across the X-, Y- and Z-axes.

Turrets on the Traub MS12-4 feature eight live stations and make use of the KPS36 compact toolholder that incorporates Index's W-serration interface. This improves setup and changeover efficiency while combining high power density, rigidity and precision. Additionally, quick-change systems are available on all toolholders for instances where only a tool change is required.



For operation and automation, Index developed a fully integrated bar loading magazine for the Traub MS12-4. The custom system incorporates four vertically stacked material guides that provide close and continuous material guidance at all times.

| Index Corp. | index-group.com
Booth 339119

CNC Lathe Provides Increased Spindle Power

Tormach's 15LX CNC lathe provides 6-hp continuous spindle power and up to 10-hp peak for heavy cuts along with faster rapids and an EtherCAT-based control system.

Key features of the 15LX CNC lathe include rapid speeds up to 360 ipm on the X- and Z-axis, extended 14" Z-travel for greater part flexibility, a compact footprint with improved chip and coolant evacuation system, a 21.5" operator console with built-in Wi-Fi and 23-bit absolute encoder servos across all axes and the turret.

The 15LX comes standard with an enclosure, stand with chip tray, automatic oiler, turret and redesigned flood coolant system featuring an external washdown hose. Additional upgrades include a single pulley ratio that eliminates manual gear changes and integrated load meters on both the axis and spindle for real-time performance monitoring.

The 15LX supports turret or gang tooling, automated collet closing and parts-catching capabilities as well as accessories such as oil skimmers, air guns and updated gang tooling kits. The lathe is well-suited for prototyping or small-batch production, or as part of an integrated manufacturing system.

| Tormach Inc. | tormach.com | Booth 338062



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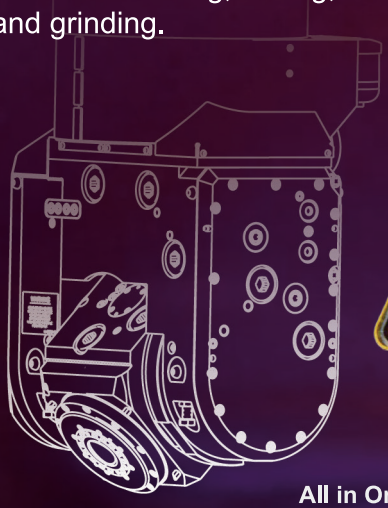

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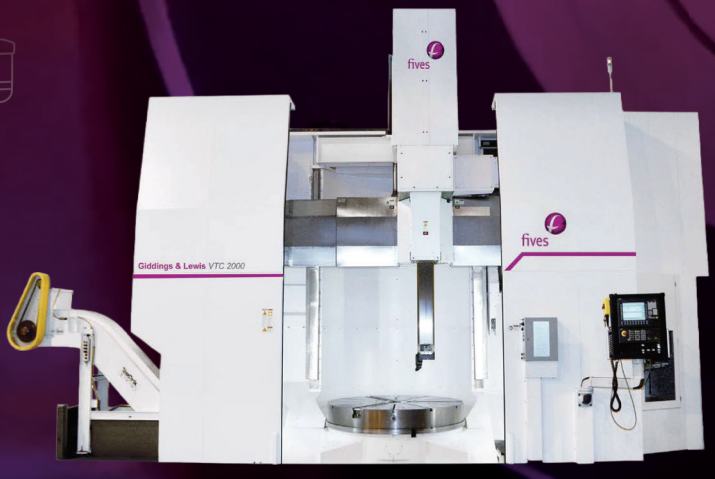

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Booth # 338578 - South Building, Level 3

hpm@fivesgroup.com

Turning Machines Support Versatile, Precision Machining Applications

Romi showcases advanced machining and turning technologies designed to provide consistent performance in demanding production environments.

A highlight of the booth is the Romi GL250M turning center integrated with an automated robotic loading system. Developed for multitasking turning operations, the solution combines turning, milling and automated part handling within a single manufacturing cell. Equipped with driven tooling and optional Y-axis capability, the GL250M is designed to help manufacturers consolidate operations, reduce handling times and improve productivity while maintaining surface finish and dimensional accuracy.



Romi also features the C470 CNC lathe, which is designed for high versatility and precision machining applications. The C470 combines structural rigidity, stability and dynamic performance within a compact footprint, offering flexibility and accuracy across a wide range of production environments.

Romi also showcases the D800 VMC, engineered for heavy-duty cutting applications. Its robust construction, generous travels and high-torque performance make it well-suited for industries requiring stable machining performance, high material removal rates and reliable operation over extended production cycles.

Throughout the exhibition, Romi's technical and sales teams are available to engage with visitors and discuss real-world machining challenges across sectors including aerospace, automotive, energy, general manufacturing and precision machining service providers.

Romi Machine Tools Ltd. | romiusa.com
Booth 338062

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Grinding & Abrasive Machining

CHRIS PASION | MANAGING EDITOR | cpasion@gardner.media

CNC Cylindrical Grinder Supports Lights-Out Manufacturing

Weldon Solutions' Midas Series is a high-production CNC cylindrical grinding platform designed to provide precision, flexibility and long-term reliability for demanding manufacturing environments. Built for both between-centers and chucking applications, the Midas Series is designed to efficiently grind a wide variety of components, including shafts, spools, crankshafts, camshafts, wheel hubs and other precision-engineered parts used in automotive, aerospace, energy and other markets.

Available with straight, angular or turret wheelhead configurations, the Midas Series performs multiple grinding operations in a single setup, including OD, shoulder, face, taper and radius grinding. This versatility reduces setup time, improves throughput and helps manufacturers maintain tight dimensional tolerances.

At its core is Weldon's custom Shear Damper machine base, which is designed to provide rigidity, vibration damping and thermal stability for consistent grinding accuracy during extended production runs. Sealed rotary and linear axes further protect critical components from contamination.

The grinder is powered by a FANUC 32i-BT CNC control system with advanced servo technology, precision linear motion systems and high-performance spindle components.

For specialized applications, the Midas Series supports high-speed peel grinding, non-round grinding and complex profile generation. Optional angular and turret wheelhead configurations allow multiple grinding processes to be completed in a single setup.

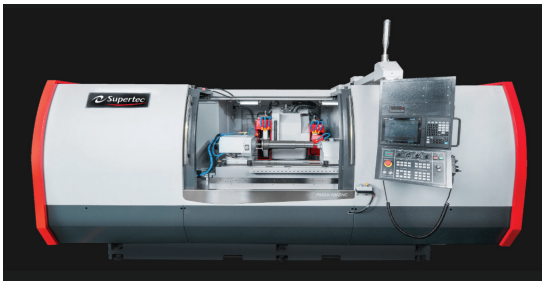
Weldon Solutions | weldonsolutions.com
Booth 236850



Grinding Machine Reduces Cycle Times

Supertec Machinery's PMGII-100CNC provides versatile, high-precision ID and OD grinding in a single setup.

The PMGII-100CNC is a turret-type CNC universal cylindrical grinder designed to maximize efficiency and reduce cycle time through its multiprocess grinding capability. Equipped with three programmable grinding wheels, a plunge-type OD wheel, an angle-head OD wheel and an ID grinding wheel, the machine enables all grinding operations to be completed in a single chucking. This streamlined process improves accuracy, minimizes repositioning errors and increases overall productivity for complex workpieces.



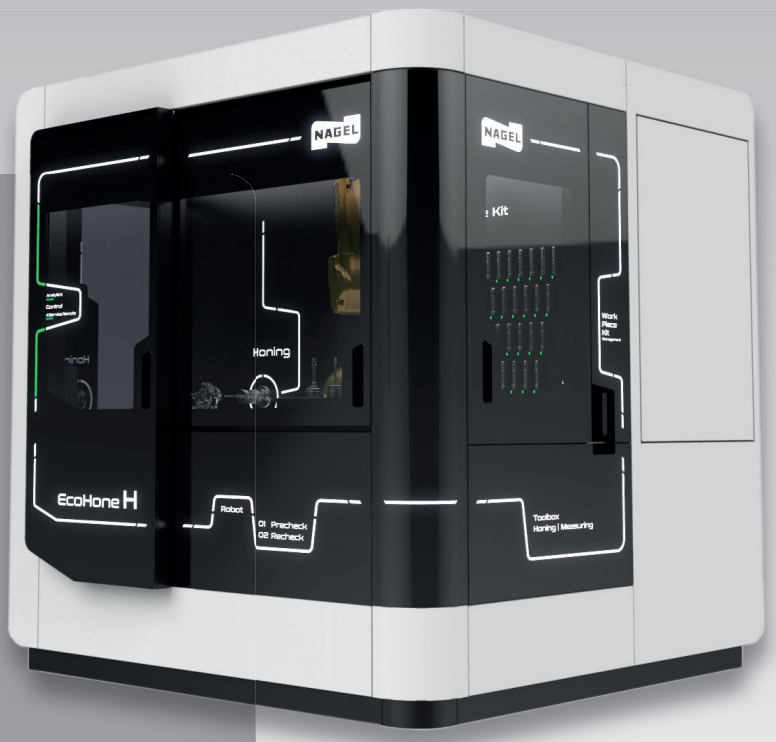
Built with a rigid, ribbed-box machine structure and a direct-drive B-axis rotary table, the PMGII-100CNC boosts stability, positioning accuracy and grinding performance. The machine is equipped with Supertec's iGrind graphical conversational interface, simplifying programming and wheel-forming operations while providing advanced grinding cycles for OD, ID, face, radius, thread and profile grinding applications.

The standard tailstock configuration supports collet, chucking and between-center grinding applications for a wide range of industries, including aerospace, automotive, tooling and precision component manufacturing. The PMGII Series is available in five between-center capacities — 24", 40", 60", 78" and 118".

The PMGII-100CNC combines multitasking capability, precision engineering and operator-friendly control technology to meet the evolving demands of modern manufacturing.

Supertec Machinery | supertecusa.com
Booth 236922

NAGEL



- Honing diameter: up to Ø 40 mm
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- Stroke lenght: max. 200 mm
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- Pallet system: According to customer specificationted
- Main dimensions: 2.410 x 2.050 x 2.900 m
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Grinding Wheels Boost Performance in Precision Grinding Applications

Norton | Saint-Gobain Abrasives showcases a range of advanced abrasive grinding technologies. The company's gear grinding wheels feature VS3PN bond technology engineered to provide exceptional profile retention, burn-free grinding and improved part quality in demanding gear manufacturing applications. Designed for high-efficiency gear grinding environments, the wheels provide optimal form holding and consistent performance in worm, profile and bevel gear grinding operations.



Norton also features Paradigm Diamond Wheels for aerospace grinding applications. Designed specifically for grinding difficult-to-machine aerospace materials, the wheels combine advanced abrasive grain technology with a highly engineered bond system to provide improved material removal rates, longer wheel life and optimized part quality. The technology is well-suited for turbine blades, aerospace engine components and other hard-to-grind materials commonly used throughout the aerospace industry.

Also highlighted are Norton Paradigm Plus Diamond Wheels for round tool grinding. Featuring premium grain technology combined with a brittle metal bond system, Paradigm Plus wheels provide high grinding efficiency, reduced grinding forces and improved wheel life for carbide round tool manufacturing applications. The wheels provide higher material removal rates and greater process consistency while maintaining precise tool geometries and surface finishes.

Norton | Saint-Gobain Abrasives
nortonabrasives.com | Booth 237042

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Automatic Surface Grinder Improves Precision, Simplifies Operation

Okamoto's ACC-818SA-iQ automatic surface grinder is engineered for manufacturers seeking higher precision, improved automation and simplified operation in a compact footprint. Combining Okamoto's mechanical rigidity with SA-iQ conversational control, the ACC-818SA-iQ provides ease of use and long-term reliability.

The machine structure features a heavy-duty Meehanite cast-iron base, robust slide assemblies and premium-grade components throughout. All sliding surfaces are hand-scraped to promote optimal straightness, long-term accuracy and vibration damping. The double-V longitudinal ways and precision cross-feed guide system provide smooth table movement and stable accuracy during continuous grinding operations.

The rigid wheelhead assembly incorporates Okamoto's sealed, maintenance-free spindle, capable of producing fine surface finishes while maintaining stability under demanding grinding conditions. A standard spindle inverter offers variable wheel speed for performance across a wide range of materials.

The iQ software simplifies machine operation with its intuitive conversational interface. Even complex grinding cycles can be configured quickly by following on-screen prompts, eliminating the need for G-code programming. Key parameters such as stock removal, dressing conditions and multistep sequences can be entered in just a few steps.

The ACC-818SA-iQ supports multiposition grinding, enabling operators to program and grind multiple locations on a single workpiece within one automatic cycle.

Okamoto Corp. | okamotocorp.com | Booth 236732





Universal Grinding Machine Reduces Part Changeovers

Emag's UG 400 universal grinding machine combines internal, external and out-of-round grinding on a single platform, completing operations that would otherwise require separate machines or fixtures in one setup. Removing those changeovers shortens throughput time and cuts the part handling that introduces clamping errors between operations.



A direct-drive motor spindle delivers 7.5-kW peak power at speeds up to 4,500 rpm and runs both corundum and CBN grinding wheels, so one machine covers conventional and high-performance grinding without retooling. The continuously swiveling B-axis positions to within ±2 angular seconds, allowing complex contours and angle grinding to be programmed and held accurately. On test workpieces, the machine achieves 0.5-µm roundness.

With a 400-mm grinding length and a center height of 175/225 mm, the UG 400 suits precision tools, hydraulic components and gear parts in tool manufacturing, precision mechanics and small-to-medium production runs. A rigid machine base limits vibration transfer, supporting consistent surface quality across production lots.

Emag LLC | emag.com | Booth 237047



Five-Axis Grinder Enables Flexible Tool Production

Star Cutter's FLX five-axis CNC tool and cutter grinding system provides a flexible platform that supports a range of grinding applications. The machine enables users to configure and modify features to match specific requirements for standard production or complex custom tooling.

The FLX offers versatility that enables manufacturers to grind both small- and large-diameter tools on a single platform in a compact, cost-effective footprint. This capability reduces the need for multiple machines while maximizing floor space efficiency, making the FLX well-suited to shops focused on productivity and scalability.



The FLX incorporates automation features that support high-volume lights-out manufacturing environments. Optional automation and automatic wheel change systems reduce manual intervention, increase spindle uptime and help manufacturers move toward unmanned or minimally attended production, according to the company. These features contribute to faster changeovers, improved consistency and enhanced overall equipment effectiveness.

The FLX focuses on speed, precision and reliability. Optimized motion control, robust construction and intelligent software integration enable faster cycle times without compromising accuracy or surface quality. The intuitive layout and user-focused design make the machine easy to operate and maintain.

By combining flexibility, automation readiness and a compact footprint, the Star FLX five-axis tool and cutter grinder provides an efficient solution for manufacturers seeking high-precision grinding that aligns with Industry 4.0 and unattended production strategies.

Star Cutter Co. | starcutter.com | Booth 237013



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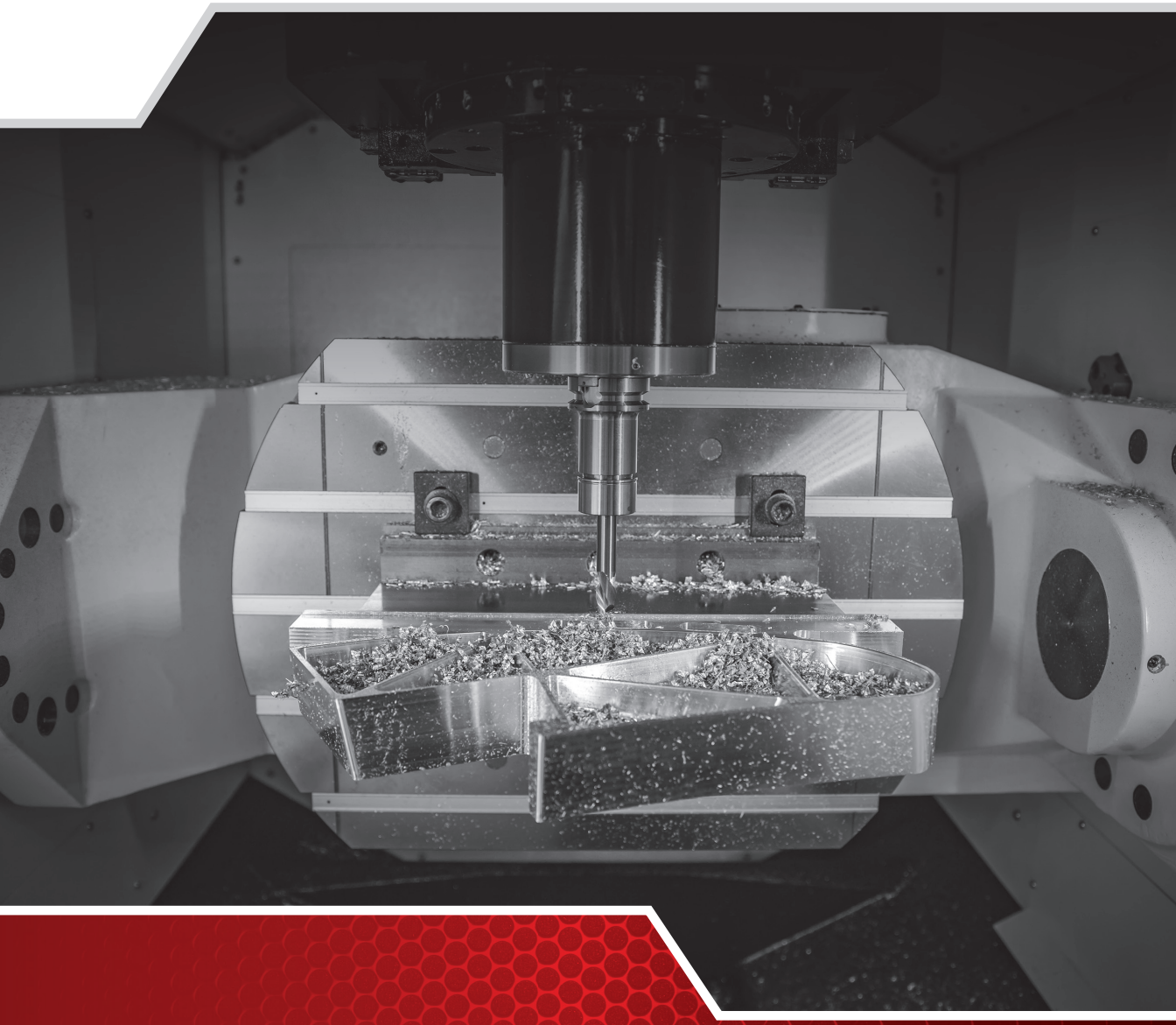

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DN SOLUTIONS



SMX 2600S

Machine Type:	Multi-tasking
Number of Axes:	5
Spindle RPM:	12,000



NHP 5000 LPS

Machine Type:	HMC
Number of Axes:	3
Spindle RPM:	15,000



DVF 5000 Gen 2 with Multi-level AWC

Machine Type:	VMC
Number of Axes:	5
Spindle RPM:	15,000



DVF 8000T

Machine Type:	VMC
Number of Axes:	5
Spindle RPM:	18,000

MAKINO



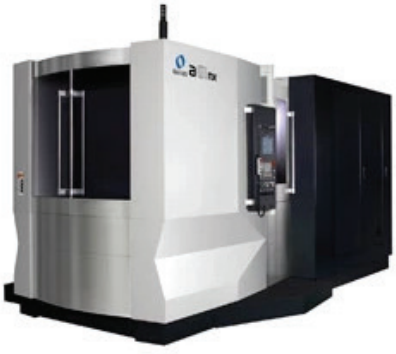
DA500

Machine Type:	VMC
Number of Axes:	5
Spindle RPM:	20,000



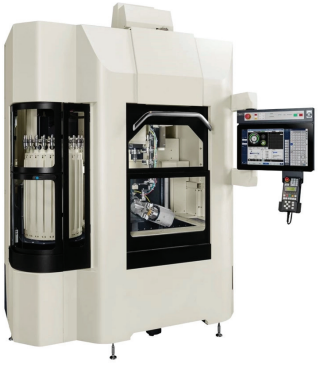
DA300 Automation Package

Machine Type:	VMC
Number of Axes:	5
Spindle RPM:	20,000



A61NX

Machine Type:	HMC
Number of Axes:	4
Spindle RPM:	14,000



BX3

Machine Type:	CNC Sinker EDM
XYZ Travel:	14.6" x 10.6" x 29.5"



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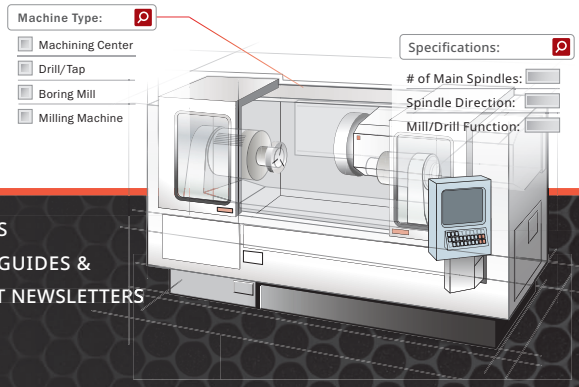

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Modular Drilling Inserts, Turning Geometry Expand Capabilities for Steel, Cast Iron, General Machining



Kennametal showcases the KenTip FS HP modular drilling insert and the Widia -MU geometry turning insert, both designed to improve productivity and versatility in metalworking operations.

The KenTip FS HP insert is the latest addition to Kennametal's KenTip FS modular drilling family, which already includes the HPG and GTP inserts. The HP geometry is designed with the KCPK15A multilayer coating for wear resistance and improved tool life in steel and cast iron applications.

Key features of the KenTip FS HP include:

- HP geometry designed to enable high productivity
- A clamping system that allows for quick insert changes to reduce machine downtime
- Two margin lands designed to promote tool stability, surface finish and hole straightness

The Widia -MU geometry is a universal turning insert engineered for finishing to semi-roughing applications. Its chipbreaker design is intended to promote high process reliability through chip shape control and optimized edge stability. The inserts are said to be well-suited for streamlining inventory and increasing shop-floor productivity.

The -MU geometry inserts are designed to:

- Withstand higher cutting forces for deeper cuts and higher feed rates
- Handle light depths of cut without sacrificing chip formation
- Reduce cutting forces through a chip groove profile engineered for a smoother cut
- Provide balanced edge strength and low cutting forces through a reinforced nose and open geometry for stable and efficient machining

The inserts are available in CNMG, DNMG, TNMG, WNMG, VNMG and SNMG styles. Widia Victory grades include WP05CT, WP15CT, WP25CT, WM15CT, WM25CT, WK05CT, WK20CT, WU10PT and WU25PT.

| Kennametal Inc. | kennametal.com | Booth 431800

Fine Boring Tools Feature Streamlined Operation

Big Daishowa's EWR series of fine boring tools are designed to provide improved usability, readability and streamlined operation.



Built on the EWN and EWE platforms, the EWR series features a simplified design with only essential onboard electronics. All advanced functions — including energy management, data processing and visual feedback — are managed through a high-resolution, full-color external reader.

The reader connects to the EWR boring head via a magnet and displays readout in any orientation. The reader communicates using near-field communication (NFC), promoting stable and reliable data transmission. Operators can easily switch between inch and metric modes depending on application requirements. The system offers 1 µm (0.00005") diameter resolution and a rechargeable battery that supports up to 250 adjustments or up to two months in standby mode. A single reader can be used across multiple EWR boring heads.

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Solid Carbide End Mills Target Aluminum, Stainless Steel Applications

Ingersoll Cutting Tools' PrimoLine solid carbide end mills are designed for manufacturers seeking measurable performance gains in demanding applications. PrimoLine products are designed to run faster, reach deeper and last longer, helping shops reduce cycle times, improve surface quality and achieve predictable results. Advanced geometries, substrates and application-specific designs enable users to push speeds and feeds while maintaining stability and tool life.

The PrimoAlu-R and PrimoAlu-F are three-flute, 90-degree solid carbide end mills designed for extreme material removal in long-reach aluminum applications.



Both use variable pitch and variable helix geometries intended to virtually eliminate vibration and chatter, promoting smooth cutting — including passes where the part corner radius on the wall matches the tool's radius. Through-coolant capability on diameters 0.250" and larger supports efficient chip evacuation and thermal control. The PrimoAlu-R supports aggressive roughing with lengths up to 6×D, while the PrimoAlu-F extends to 7×D for long wall finishing and vibration-free milling into corners.

The PrimoSS-V and PrimoSS-H are designed for versatility and high-efficiency machining of stainless steel. Both feature variable pitch and variable helix geometries, which detune vibrations. Through-coolant designs are also available to improve cutting performance. The PrimoSS-V is a four-flute end mill designed for slotting, shoulder and finish milling. The PrimoSS-H, offered in five- and six-flute options, is optimized for high-efficiency and trochoidal milling. The combination of chip splitters, advanced geometries and deep-reach capabilities maximizes productivity in stainless steels.

Ingersoll Cutting Tools | ingersoll-imc.com
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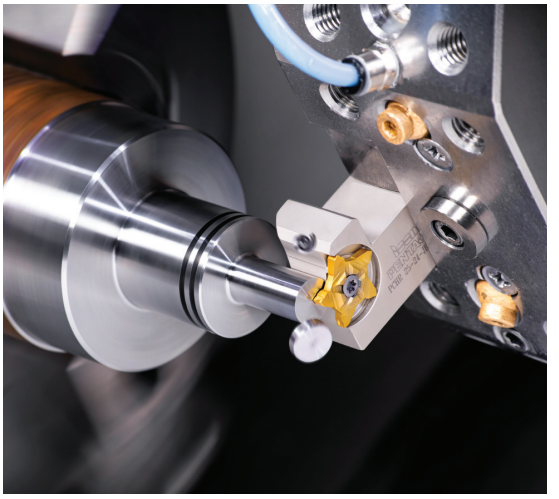
Insert System Reduces Downtime, Improves Machining Stability

Iscar USA's Quickpenta 24 insert system for grooving, parting and light turning applications is designed to simplify insert indexing, reduce downtime and improve machining stability. The Quickpenta 24 combines a multifunctional cutting platform with a clamping mechanism that enables faster insert changes and increased shop-floor productivity.



At the core of the system is the Quickpenta 24's Safe-Lock clamping mechanism, engineered to provide secure insert retention and stability during machining. The locking design allows operators to release the insert with two turns of a screw, enabling quick and easy replacement while minimizing machine downtime.

Inserts can be rotated by hand to the next cutting edge, allowing for fast indexing without complicated setup procedures. This streamlined process helps reduce interruptions and improve machine utilization.

The Quickpenta 24 is available in a range of cutting widths, including 1.5 mm (0.059"), 2.0 mm (0.078"), 2.4 mm (0.094") and 3.0 mm (0.118"), with a maximum depth of cut of 12.7 mm (0.5"). Coolant delivery is directed precisely into the cutting zone for improved heat management, chip control and tool performance.

The same Quickpenta 24 insert can be used in both right- and left-hand tools, supporting parting, grooving and side-turning applications. The Quickpenta line is compatible with traditional Penta holders, providing shops with an easy transition path while expanding machining flexibility.

Iscar USA | iscar.com | Booth 431522



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Cutting Tool Supports Single-Pass Drilling, Chamfering

Tungaloy-NTK America Inc.'s expanded DrillMeister exchangeable-head drill line includes pre-thread drills for standard tap sizes, enabling shops to drill and chamfer in a single pass and eliminate a separate operation.

The solution is well-suited for shops looking to streamline the process of producing standard tap-size holes, including 3/8", 7/16", 1/2", 9/16", 5/8", 3/4" and 7/8". Tungaloy also offers modular drill bodies with chamfering capability for applications requiring a long overhang. Combining drilling and chamfering into a single operation is designed to reduce downtime with fewer tool changes and increase productivity.

DrillMeister is a versatile tool system that allows a single drill body to accommodate a variety of head geometries and sizes. Tungaloy offers the general-purpose DMP head; the high-accuracy, self-centering DMC head; the flat-bottom DMF head; the reinforced-edge DMH head; the DMM head for stainless steels and exotic materials; and the DMN head for non-ferrous machining applications.



Tungaloy provides its AH9130 grade in the DrillMeister series, featuring a nano-multilayer coating that provides resistance to built-up edge, wear, oxidation and fracture. The coating of the AH9130 grade provides strong adhesion between the coating layer and carbide substrate, helping prevent coating delamination and extending tool life.

Tungaloy-NTK America Inc.
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Swiss-Type Tooling Boosts CNC Lathe Productivity

Platinum Tooling Technologies Inc. displays a range of tooling solutions for Swiss-style CNC lathes.

The company offers Heimatec live tools and angle heads along with speed multipliers in gear ratios of 1-to-2, 1-to-3 and 1-to-4 that reach maximum speeds of 48,000 rpm. Platinum Tooling also stocks live and static tools and speeders for Swiss machines.

Platinum manufactures its Swiss-type tooling with high spindle bearing technology and ground gear components. Tooling includes straight and 90-degree heads, Woodruff key cutters, thread whirling tools, multiple spindle heads and adapters.

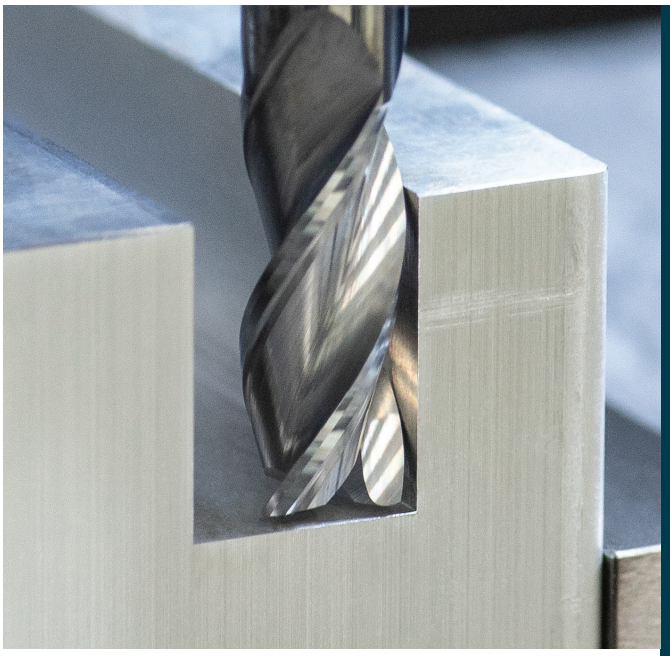


With the growth of medical and other high-precision, high-volume manufacturing using Swiss-style machines, speed increasers have become vital to the machine tool industry. As components get smaller, the cutting tools required also get smaller, necessitating higher rpm to provide maximum performance. Heimatec speeders for Citizen, Tsugami and Star machines are designed to enhance stability and precision of cutting tool performance.

In addition, the company offers Hommel and Keller Quick knurling and marking tools. Cut and form knurling tools are used for applications such as barbells, hand tools and dental instruments. Marking tools assist with part identification and traceability. Part numbers, logos and other production data can be marked reliably in less time than laser marking.

Components such as collets and guide bushings are also available for numerous Swiss machine brands.

Platinum Tooling | platinumtooling.com
Booth 432201



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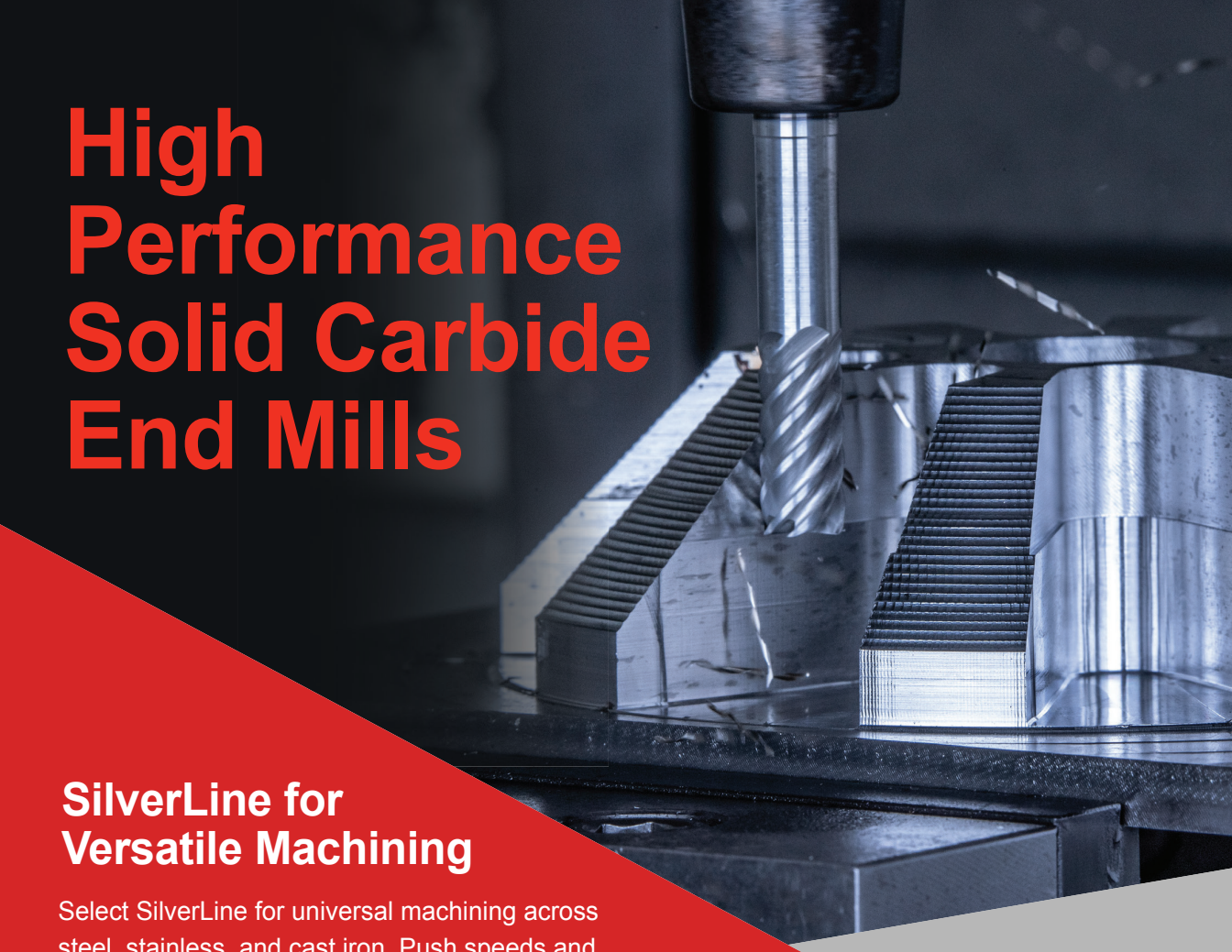

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Solid Carbide End Mills Support Stable, High-Performance Cutting

Ceratizit features its SilverLine series of solid carbide end mills. The end mills expand the company's Advanced Line cutting tool portfolio — an application-driven, high-performance series developed for specific requirements where process reliability, tool life and precision are crucial.

The four- and five-flute SilverLine end mills are available in an inch assortment. Engineered to provide stable performance across a wide range of tooling applications, the end mills feature the company's Dragonskin coating technology. The series is designed to provide improved wear resistance, better chip evacuation and increased process security for high-performance machining. SilverLine also reflects Ceratizit's vertically integrated supply chain approach, from raw material processing through finished tool production.

For maximum stability in demanding operations, Ceratizit's four-flute SilverLine end mill features variable helix and pitch. The five-flute version offers a constant helix and variable pitch and is said to excel in a wide range of materials.



SilverLine end mills and the entire Advanced Line portfolio are designed to support Ceratizit's focus on the aerospace, defense, oil and gas, and automotive industries, as they are engineered to promote stable machining performance, reduce tool wear and deliver repeatable results in high-volume, high-precision production environments.

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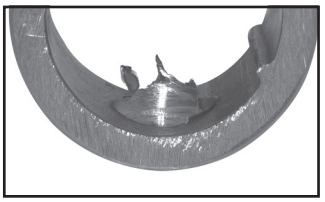

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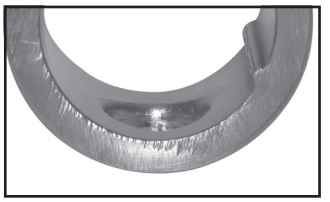

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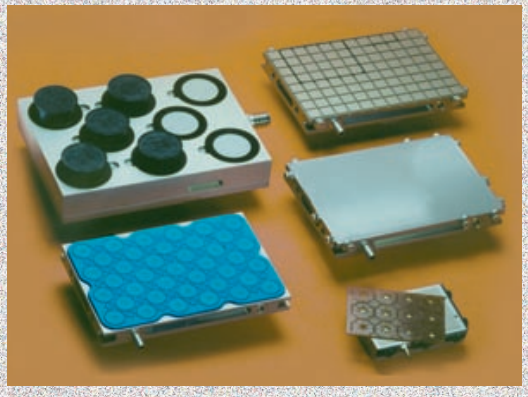

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Precision Boring, Facing Solutions Expand Machine Capability

Koma Precision showcases its line of D'Andrea boring and facing solutions. D'Andrea's manual, semi-automatic and fully NC-controlled systems are compatible across all common machine tool interfaces.

D'Andrea's modular MHD system is built around a custom connection. Each boring head in the system provides the concentricity necessary for high-precision applications. The MHD's arbors, extenders, reducers and adapters are shared across its core sizes ranging from the TRM micro-fine boring heads with micrometric radial adjustment to the TRC centesimal fine boring heads for precision finishing, the digital TRE fine boring heads with electronic readout for accurate measurement and the double-bit TS rough boring heads for aggressive material removal.

Beyond the MHD system, D'Andrea offers a line of high-precision boring heads, most of which use the same adapters and arbors as those in the MHD system, reducing standalone tooling costs across a wide range of machines. The traditional TA-Sensitiv manual heads for boring and facing operations provide reliable and repeatable facing and boring on conventional CNC machines, while the Autoradial automatic facing heads execute a complete facing cycle automatically, enabling standard machining centers to complete operations that would otherwise require a turning center or dedicated facing attachment.

The TA-Center heads add a fully programmable U-axis (radial slide) to any machining center and are compatible with automatic tool changers. The slide movement is controlled by the machine's own U-axis output, eliminating the need for a separate controller or PLC. A machine equipped with a TA-Center head can consolidate operations that would otherwise require a dedicated turning center.

Koma Precision Inc. | komaprecision.com
Booth 338754



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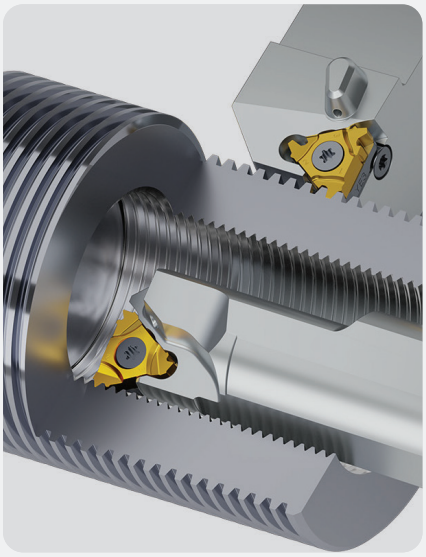

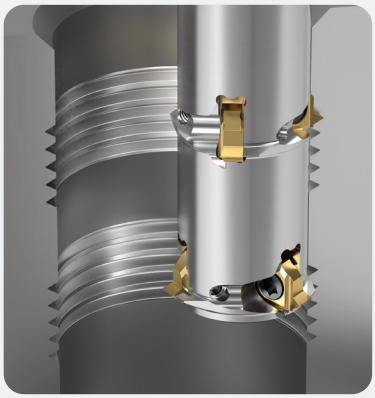

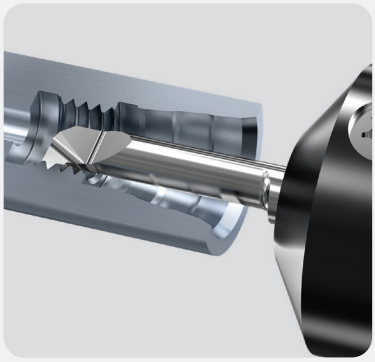



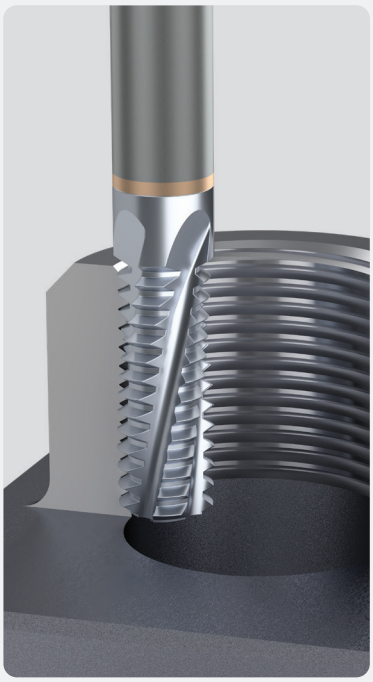

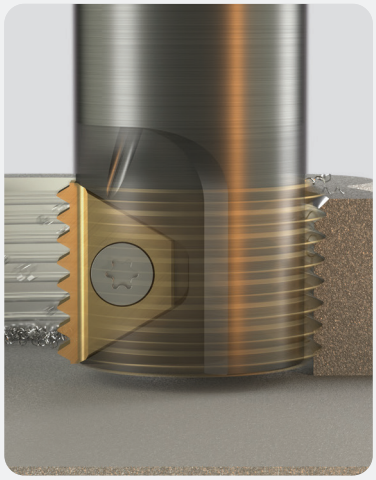

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Comprehensive Machining Solutions Improve Metalworking Operations

Sandvik Coromant highlights its comprehensive approach to solving real-world challenges in machining.

Booth visitors can explore the Sandvik Coromant offering through advanced digital experiences. Using an interactive 3D component simulation table, attendees can learn about machining a variety of components for industries such as aerospace, automotive and energy. Showcasing models like an aero engine casing and a fracking block, the platform displays the component machine programming, setup tips, tooling selection and application videos for each stage of the machining process. In addition, visitors can get a firsthand look at the latest Sandvik Coromant milling, drilling and turning tools running in partner booths.



The company is also featuring an immersive virtual reality kiosk offering an exclusive tour of the Sandvik Coromant training center and production facility in Mebane, North Carolina. The experience provides a behind-the-scenes look at how the company tests and applies its own tooling technology and data-driven approach to achieve manufacturing excellence.

As a hub for learning and collaboration, Sandvik Coromant also highlights its Manufacturing Wellness concept, which considers a holistic view of eight habits from developing people to using technology and eliminating waste to improve operations. Sandvik Coromant's yellow coat specialists will provide Manufacturing Wellness assessments and scorecards to help visitors gauge their progress toward more efficient production.

Sandvik Coromant Co. | sandvik.coromant.com | Booth 338348



Toolholding System Supports Tight-Tolerance Machining

Rego-Fix Tool Corp. showcases its toolholding solutions for manufacturers seeking enhanced precision, repeatability and reliability in their machining processes. The company will feature the original ER collet by Rego-Fix and its PowRgrip toolholding system. The booth also features an Ed Carpenter Racing vehicle.

Rego-Fix toolholding systems provide Swiss-precision machining for all manufacturing sectors, including motorsports, aerospace, automotive and medical, through engineered solutions that promote accuracy, rigidity and repeatability in high-pressure environments that demand tight tolerances.



Developed in Tenniken, Switzerland by Rego-Fix, the original ER collet is engineered for precision, versatility and reliability across a wide range of machining applications. Rego-Fix ER collets provide high clamping force and concentricity for extending tool life while maintaining consistent part accuracy. The ER collet is available in multiple sizes and configurations to accommodate a broad clamping range, allowing shops to reduce tooling inventory without sacrificing performance.

The Rego-Fix PowRgrip toolholding system uses a taper-to-taper, press-fit collet holding design that creates a vibration-damping gap to interrupt the strength and severity of vibration waves. Three components make up the PowRgrip: holders, collets and press-fit assembly mounting units. Users are said to be able to assemble tools within 10 seconds without heat or hydraulics as used in other tool clamping systems. The PowRgrip technology allows tools to be used immediately after the loading cycle concludes without limitations and tool-life compromises.

| Rego-Fix USA | regousa.com | Booth 431822

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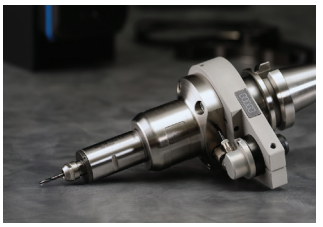
Spindle System Streamlines Small-Tool Machining

NSK America Corp.'s iSpeed5 spindle system is an independent electric motor spindle system in which the main spindle on the machine is locked during operation. Using an independent electric motor spindle provides low vibration, low runout and high speed to optimize the capabilities of the machine for even the smallest tools. The iSpeed5 system is available in two configurations — one offering 60,000-rpm and the other offering 80,000-rpm maximum speed.

The iSpeed5 system is fully tool-changeable and fits into the tool carousel of most machining centers. Electrical and air interface runs through a stock block that mounts to the face of the machine spindle.



The iSpeed5 system enables the use of small-diameter tools in existing machine tools.

NSK America Corp. nskamericacorp.com Booth 431574



Torque Adapters Maximize Tool Life

Sloky USA preset torque adapters promote consistent fastening in manufacturing environments. Manual fastening remains one of the most common sources of error on the shop floor. The adapters are designed to prevent over-tightening and under-tightening. Once the specified torque limit is reached, the internal mechanism triggers a click and ceases force application. Technicians can continue to rotate the handle without transferring additional torque. This approach promotes uniform tension on every screw, protecting cutting tools and preventing stripped screws and damaged threads.

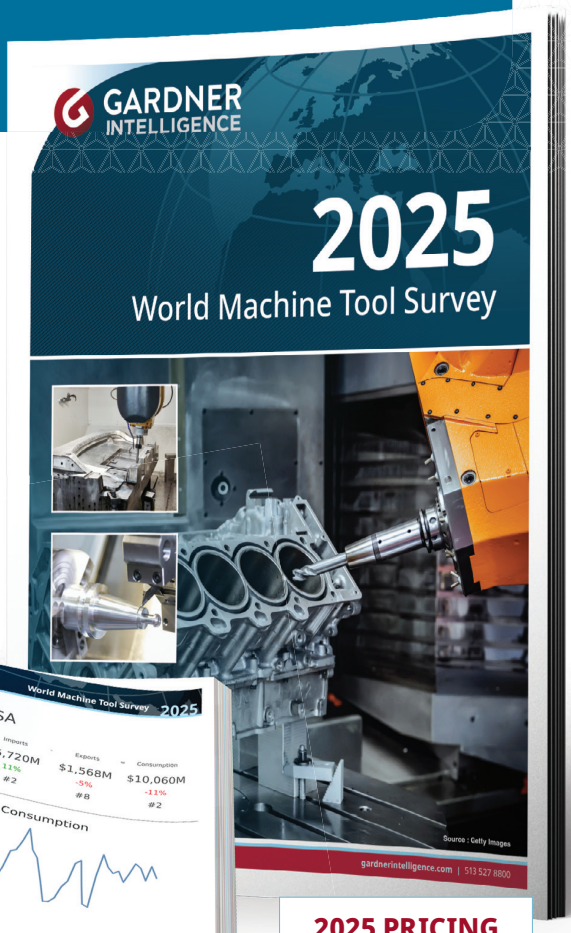


The adapters comply with DIN EN ISO 6789 standards. They are rated for 5,000 cycles, with a service life reaching up to 20,000 cycles.

ACCF International Inc. | slokyusa.com Booth 431850

GLOBAL INSIGHTS & OPPORTUNITIES

Key Findings From the Annual World Machine Tool Survey



Who are the top countries in machine tool production, consumption, imports and exports? Be one of the few savvy top business leaders who have the worldwide answers — discover it all in the 58th annual installment of the **World Machine Tool Survey Report**.

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- Listing of Top Import/Export by Machine Type per Country



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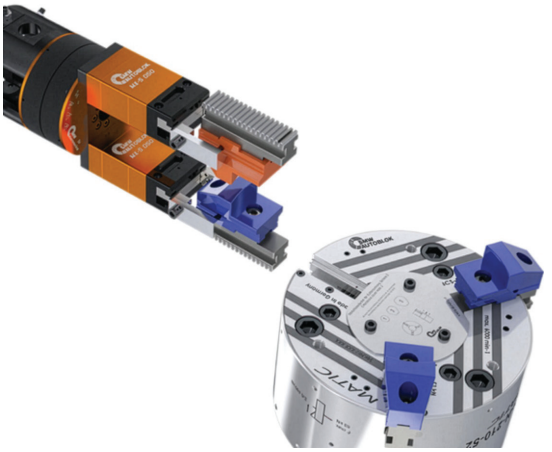
CHRIS PASION | MANAGING EDITOR | cpasion@gardner.media

Power Chuck Automates Jaw Changes for High-Mix Production

SMW Autoblok features the KNCS-matic quick jaw change chucks for automated production environments. The latest clamping system in the KNCS power chuck family, the KNCS-matic is designed for automatic quick jaw changes by conventional industrial robots.



This workholding system uses an industrial robot to deploy a release pin to detach the base jaws, replace them with new ones and secure them in place with the pin. Jaws are replaced quickly and precisely, reducing setup times and increasing flexibility for high-mix production environments.

Available in six different sizes, KNCS-matic chucks offer a clamping force range of 100-250 kN depending on the size. The chucks are Proofline sealed to keep coolant, chips and debris out of the internal mechanisms, reducing maintenance costs and downtime.

KNCS-matic chucks are designed to integrate with MX-S mechatronic grippers from SMW Autoblok's Motiact product line. Additionally, the F100 inductive coupling system provides contactless transmission of energy and signals between the robot arm and gripper, further improving ease of use and efficiency, according to the company.

SMW Autoblok Corp. | smwautoblok.com
Booth 431617

Pneumatic Vises Reduce Setup Time, Improve Part Quality

Mate Precision Technologies features its line of automation-ready DynoGrip Air pneumatic vises. Compressed air secures the workpiece, providing the same clamping force, accuracy, repeatability and parallelism as Mate's zero-point 52/96 workholding system. The DynoGrip Air is available in two versions: the Grooved DynoGrip Air vise and the Quick-Change DynoGrip Air vise.

The Grooved DynoGrip Air vise is said to have the same groove pattern as comparable vises on the market, enabling companies to use their existing jaw inventory when switching to DynoGrip Air. The Quick-Change DynoGrip Air vise features the same quick-change design and jaws as Mate's manual vises. These can be changed without engaging socket cap screws, reducing setup times. Both versions work well with standard jaws for op. 10 roughing operations or with soft jaws for op. 20 finishing.

The DynoGrip Air pneumatic vises offer several features designed to reduce setup time, increase efficiency and improve part quality. Users can choose interchangeable and reversible S7 tool steel jaws with pentahedral teeth for workpiece penetration and holding force. The anti-lift design uses the pusher and jaw to exert downward force on the workpiece. A grease reservoir automatically applies grease to the vise's moving components to sustain performance and clamping force. Side and bottom air ports promote compatibility with machine tool automation. Mate builds these vises with tool steel construction and applies a Black Diamond surface treatment on the body, pushers and jaws for extended service life.

Mate Precision Technologies | mate.com
Booth 432146



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BOOTH 432203

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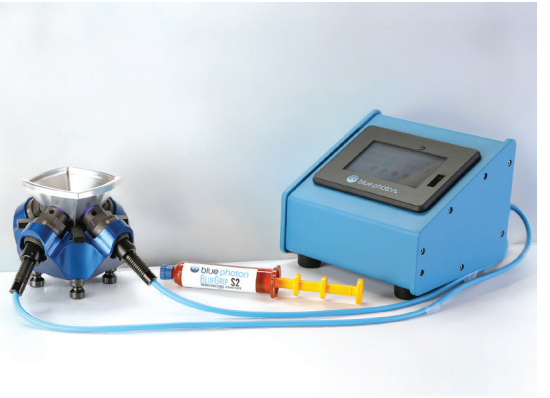
Workholding System Expands Precision Manufacturing Capabilities

Blue Photon Technology & Workholding's Adhesive Workholding system is engineered to address challenging part-holding applications across a broad range of industries. Blue Photon says its system enables manufacturers to securely hold difficult components without introducing distortion, restricting tool access or requiring complex fixturing.



Unlike traditional clamping systems, the adhesive workholding system uses a distinctive approach that provides secure holding strength while allowing nearly complete access to the workpiece. This expanded access is said to reduce setup changes, minimize secondary operations and improve machining efficiency. According to the company, manufacturers can achieve quality surface finishes, dimensional accuracy and reduced cycle times while simplifying their production processes.

Blue Photon's technology is well-suited for machining complex geometries, thin-walled parts, near-net shapes and delicate materials that have historically been difficult or impossible to fixture. Applications span industries ranging from aerospace and jet propulsion components to medical devices, optical glass, advanced materials and additive manufacturing.

Compatible with milling, grinding, additive manufacturing and other precision machining processes, the system is designed to help manufacturers reduce scrap, improve repeatability and increase productivity. By eliminating many of the constraints associated with conventional workholding, the system allows users to tackle increasingly complex designs while promoting precision and efficiency.

Blue Photon Technology & Workholding Systems
bluephotongrip.com | Booth 431446

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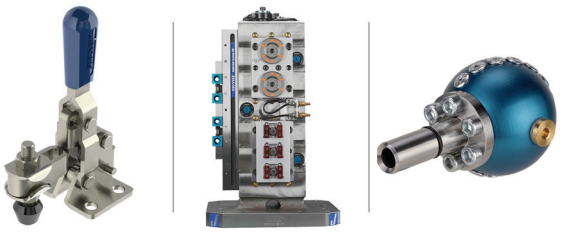
Workholding Solutions Boost CNC Machining Productivity

Jergens Inc. highlights several product families with hands-on demonstrations of quick-change workholding subplates and systems, precision vises, custom design and build solutions, devices for unattended applications and a full range of toggle clamps.



The company's ball-lock mounting systems and ZPS locking and locating modules are engineered for faster setup and changeovers. Working in conjunction are low-profile, self-centering vises designed to promote precision and repeatability while offering a high level of part machining access. To combine the advantages of maximum part fixturing with optimal access, Jergens offers its Custom Design and Build group to create dedicated workholding solutions around the requirements of specific parts.

For customers seeking unattended and automated operations, several products are available for demonstration, including the MT-S Spindle Gripper and the Machine Washdown Tool for quick cleanup between cycles. Jergens also displays numerous styles and sizes of toggle clamps designed to enable quick and accurate clamping performance across a wide range of fixturing applications.

Jergens Inc. | jergensinc.com | Booth 431910

Vise Enhances Process Reliability for Automated Production

Bison USA Corp. showcases its 6740 self-centering power vise designed to support automated production environments with consistent clamping performance and process reliability.

Available in both pneumatic (6740 P) and hydraulic (6740 H) configurations, the 6740 vise provides precise, repeatable workpiece positioning to help reduce setup variation and improve machining consistency. Its self-centering design provides accurate part location while high-rigidity construction provides the stability required for demanding milling operations.

Engineered for production automation, the 6740 features a fully sealed internal mechanism that protects critical components from chips and coolant contamination. The easy-clean body design minimizes maintenance requirements and helps maximize machine uptime to support automated cells and lights-out manufacturing environments.

The vise provides a linear relationship between input pressure and clamping force, enabling users to accurately control clamping pressure for a wide range of materials and part geometries. Pneumatic models generate up to 40 kN of clamping force at 9 bar, while hydraulic versions deliver up to 40 kN at 30 bar, helping to promote secure workholding throughout the machining cycle.

The 6740 series is available with standard jaw travel, extended jaw travel or one movable and one stationary jaw configuration.



Bison USA Corp.
bison-america.com
Booth 431670

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BOOTH #431446

Short-Body Vises Provide High-Density Workholding in Compact Applications

Kurt Workholding showcases the TL4SCS and TL6SCS TriLock short-body vises with Carvesmart quick-change jaws, providing high-density workholding and flexibility for compact CNC machining environments.

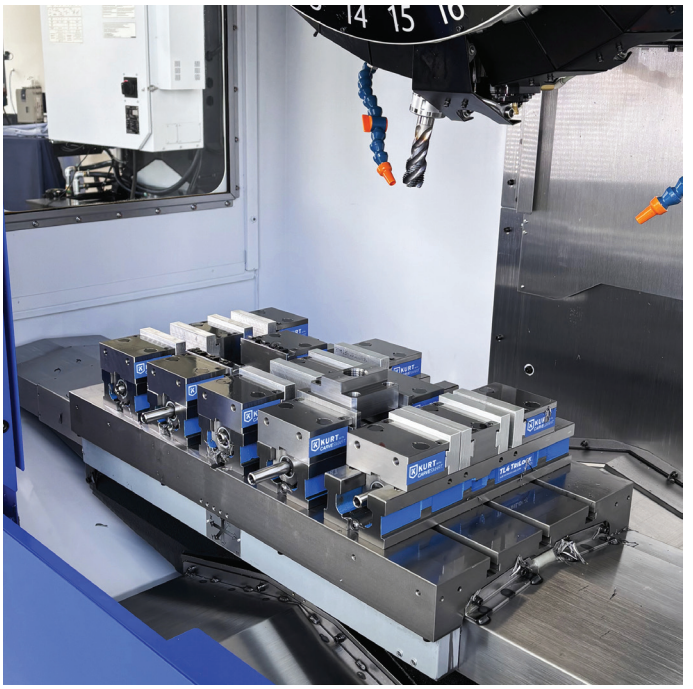
Designed for smaller machining centers, the 4" TL4SCS and 6" TL6SCS combine Kurt's TriLock vise technology with a quick-change dovetailed jaw system. The compact designs allow shops to maximize machine table capacity while maintaining rigidity, precision and repeatability.

The TL4SCS is 14.192" long, while the TL6SCS measures 18.961" long. Both models feature 100-mm and 125-mm through-body mounting patterns compatible with common machine tables from Haas, Brother, FANUC Robodrill, Mazak and others — making them well-suited for high-density use with four to five vises mounted on a single machine table.

Like all TriLock vises, the short-body models convert between double-station, single-station and large-capacity single-station configurations, providing versatility from a single workholding platform. The custom Carvesmart dovetailed jaw system eliminates traditional jaw cap screws, enabling jaw changes in seconds — reducing setup times and improving tool access and part clearance, according to the company.

Each TriLock short vise ships with machinable aluminum jaw sets and is compatible with a growing lineup of precut 4", 6" and 8" Carvesmart jaw options, including hardened jaws, steel and aluminum soft jaws and edge-gripping styles. Bulk steel jaw stock and aluminum extrusions are also available in multiple profiles and lengths for shops that prefer to cut their own jaws.

Kurt Workholding | kurtworkholding.com
Booth 432203



Collets Reduce Setup Downtime for Turning Applications

iSwiss Corp. introduces its Quick Exchange Collets, engineered for CNC lathes and quick-grip workholding applications. The iSwiss Quick Exchange Collets enable operators to change collets quickly and easily without the need for extensive machine downtime. By simplifying the collet replacement process, manufacturers can improve productivity, increase machine utilization and reduce costly setup interruptions.



In addition to introducing a workholding solution, iSwiss says the Quick Exchange Collet System represents a milestone in the company's expansion beyond the Swiss-type machining market. While iSwiss has historically provided high-performance tooling and accessories targeted for Swiss CNC applications, the company is expanding its solutions for a broader range of turning and machining operations.

iSwiss Corp. | iswisstools.com | Booth 431379

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CHRIS PASION | MANAGING EDITOR | cpasion@gardner.media

Software Platform Connects CNC Design and Machining Workflows

Autodesk highlights how connected design and manufacturing workflows can help CNC machining teams work faster, reduce rework and improve confidence before parts reach the shop floor.

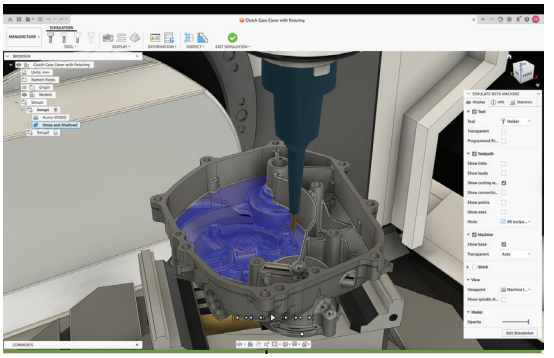
Autodesk demonstrates how Autodesk Fusion for Manufacturing helps connect design, CAM programming, process development and shopfloor production in one platform, giving teams a more consistent path from design intent to finished part.

Autodesk Fusion for Manufacturing is designed to give manufacturers the speed and confidence to design products, develop processes and drive CNC machines in a connected environment. By bringing design, CAM and additive and subtractive workflows together, Fusion for Manufacturing is intended to help keep teams, data and decisions aligned across production — reducing disconnected handoffs, minimizing rework and accelerating delivery of high-quality components.

Autodesk also spotlights Autodesk Assistant in Fusion, an AI-powered assistant that helps users turn natural language into supported Fusion actions. In design and manufacturing workflows, Autodesk Assistant can help teams find guidance, execute commands and automate repetitive tasks by creating and running Fusion API scripts. It can also support script and add-in development where Fusion API coverage exists, helping machining teams stay in flow and keep more work inside one connected platform.

For CNC machining teams, Autodesk will focus on practical workflows that support day-to-day programming and production needs, including integrated CAD/CAM; associative tool paths connected to design changes; two-, 2.5- and three-axis milling, turning and turn-mill workflows; 3+2 machining; machine simulation; fast toolpath simulation; reusable CAM templates; and connected partner workflows.

| Autodesk Inc. | autodesk.com | Booth 133310



Production Monitoring System Improves Shopfloor Visibility

Harmoni showcases its Factory Orchestration System, which moves beyond traditional production monitoring by unifying machines, people and data into a single intelligent operating layer.



The Factory Orchestration System is designed to provide complete factory floor visibility. By combining real-time machine data and alerts with employee time tracking and deep ERP integrations, the platform offers context that isolated systems lack. This integration allows manufacturers to view costing, schedules and production performance alongside machine activity, offering insights into manufacturing processes.

By leveraging RFID-enabled hardware and AI-powered assistants, Harmoni automates the coordination of workflows and streamlines operator tasks. This promotes critical engineering and quality data reaching the front line at the exact moment it is needed. The result is a system that not only monitors production but also actively orchestrates it, helping leadership improve throughput, reliability and on-time delivery.

| Harmoni Solutions Inc. | harmoni.io | Booth 135708

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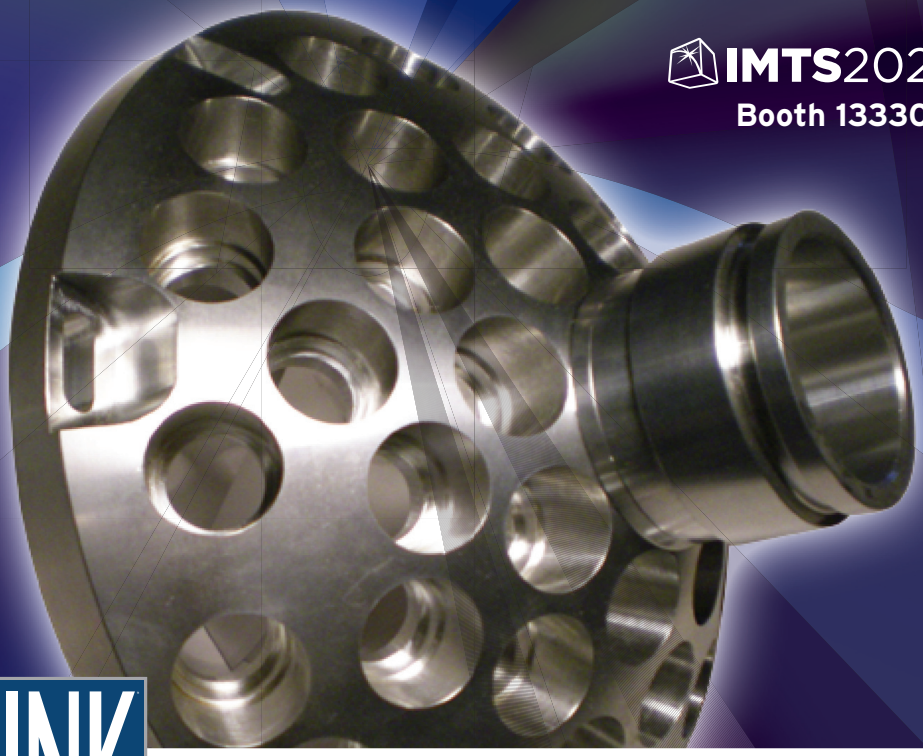

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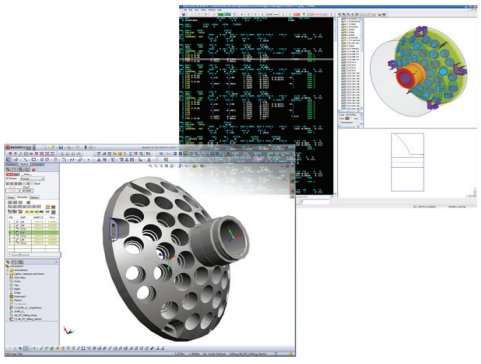

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Software Suite Accelerates ERP Implementation for Discrete Manufacturers

Infor showcases the Infor Velocity Suite, an AI-powered software package designed to give discrete manufacturers a faster path from ERP implementation to measurable business impact. Velocity Suite is delivered on Infor CloudSuite Industrial Enterprise, Infor's multitenant cloud platform for industrial manufacturing, and now includes the full library of Infor Industry AI Agents, Agent Orchestration and Agent Factory — capabilities built for the workflows of industrial and metalworking manufacturers.



Key capabilities of the expanded suite include:

- **Industry AI Agents:** Pre-trained agents built for specific manufacturing roles and processes — from quoting and scheduling to service execution — that recognize the right moment to act within a shop's existing workflow
- **Value+ Solutions:** A catalog of pre-built automations now discoverable directly inside Infor CloudSuites, reducing the time between go-live and operational results
- **Prescriptive AI Use Case Packs:** Curated sets of ML and AI use cases organized by role, process and industry, giving manufacturers a clear starting point rather than an open-ended platform
- **Care For Managed Services:** Every Velocity Suite implementation now includes a year of complimentary post-go-live managed services to keep AI investments on the path to value

Infor says its agents are trained on industry-specific data models and processes, unlike horizontal AI tools applied across industries.

Infor | infor.com | Booth 135822

Production Monitoring Platform Reveals Hidden Capacity

ECI Software Solutions showcases Amper, its production monitoring and intelligence platform, demonstrating how manufacturers can boost productivity.

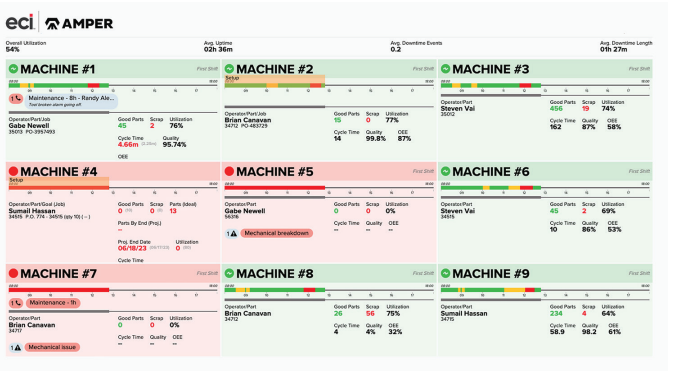
Amper combines universal IoT sensors, pre-built ERP integrations and operator-facing touchscreens to provide real-time visibility across machines, operators and jobs.

Key features of Amper include:

- **Automated machine monitoring:** IoT sensors capture uptime, downtime and cycle counts without manual entry
- **OEE and downtime tracking:** Instant visibility into downtime causes and overall equipment effectiveness (OEE) is designed to accelerate root-cause reduction
- **Smart scheduling:** Live capacity and ERP-linked work orders enable accurate forecasts and drag-and-drop schedule adjustments
- **Operator interface:** An intuitive touchscreen displays job progress, shift targets and downtime prompts for frontline clarity
- **Issue and maintenance management:** Auto-created tickets from live machine data are designed to streamline repairs and proactive maintenance
- **Real-time alerts and dashboards:** Live metrics support rapid decisions and continuous improvement

The platform helps lower operating costs and improve on-time delivery through better scheduling, fewer unplanned stoppages and data-driven decisions.

ECI Software Solutions Inc. | ecisolutions.com | Booth 133361



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Vektek Pressure Monitoring System Supports Multifixture CNC Automation

Vektek features the Guardian 2.0, an industrial-grade pressure monitoring system engineered for fixture builders, CNC automation specialists and manufacturers who require reliable confirmation of clamping pressure across complex, multifixture environments. Designed for continuous oversight, Guardian 2.0 monitors fixture pressure from the moment a pallet is presented for machining. The system is designed to keep pressure above the user-defined set point throughout the entire machine cycle.



Built for demanding shop conditions, Guardian 2.0 offers integration, flexibility and robust performance in industrial environments. Its IP68-rated transmitter provides dependable pressure monitoring even in harsh coolant, chip and washdown conditions. With a 900-MHz communication range exceeding 100 feet, the system supports easy transmitter pairing and scalability — accommodating more than 200 transmitters within a single control system.

Guardian 2.0 allows users to view the pressure status of fixtures stored in pallet pools, staged for machining or actively in cycle. Each transmitter can be configured to monitor one, two or four circuits, giving fixture designers and automation engineers the ability to confirm pressure across multiple clamping points with a single device.

By combining continuous monitoring, long-range industrial communication and high-capacity transmitter support, Guardian 2.0 provides a layer of process assurance for shops seeking to reduce scrap, prevent misloads and maintain consistent machining quality. The system is also designed to help prevent machine crashes and costly machine downtime.

| Vektek LLC | vektek.com | Booth 431922

CAD/CAM Automation Technology Streamlines Manufacturing Workflows

Tebis America's SmartOps automation technology within the Tebis CAD/CAM environment is designed to streamline and standardize manufacturing workflows.

SmartOps improves CAD design preparation and CAM programming by automating repetitive processes, improving consistency and reducing manual programming effort. The technology enables manufacturers to build scalable, reliable automation workflows directly within the Tebis environment — without requiring scripting or coding expertise.

"Manufacturers are under increasing pressure to improve efficiency, reduce programming time and maintain process consistency," says John Kowalczyk, president, Tebis America. "SmartOps gives users the ability to automate proven workflows, while maintaining the flexibility and control needed in modern manufacturing environments."

SmartOps uses wizard-based dialogs to guide users through automated CAD/CAM workflows. Users can follow established best-practice processes or manually intervene and adjust parameters as needed, creating a balance between automation, flexibility and process reliability.

The platform also allows manufacturers to quickly adapt processes without rebuilding programs from scratch. Users can swap machines, change tooling, modify clamping setups, adjust parameters and exchange part variants.

A distinguishing aspect of SmartOps is its accessibility. Unlike many automation systems, SmartOps does not require external automation software, scripting or programming knowledge. Users can develop and manage automated workflows themselves directly inside the Tebis CAD/CAM platform.

| Tebis America Inc. | tebis.com | Booth 133230



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Data Management Software Features AI Capabilities for Metrology

InnovMetric showcases PolyWorks 2026, which provides a data management solution in a cloud-based software as a service (SaaS) model, improved software compatibility to support a broader range of measurement devices, and an AI assistant designed to provide technical support 24/7.

PolyWorks 2026 enables metrology engineers and QC managers to implement standardized dimensional inspection processes, facilitating multisite collaboration among metrology teams as well as external suppliers.

PolyWorks 2026 introduces two enhancements that leverage a digital thread framework to create an inspection lab. DataLoop Cloud is a SaaS solution designed to provide secure data centralization for manufacturers seeking to outsource their data management server setup and maintenance. It also enables seamless sharing of PolyWorks Inspector licenses as well as piece measurement templates with tailored interfaces, streamlining multisite inspection by driving standardization and boosting efficiency.



The universal metrology platform delivers four key extensions, enabling metrologists to work smoothly and with greater flexibility. A computed tomography scanning module automates CT-based multipiece inspection in production environments. A web-based data app allows collecting and consolidating data from handheld gages and visual checks. Real-time integration of portable multiline scanners within PolyWorks Inspector enables direct processing of scan data and eliminates manual transfers as well as the need to switch between software platforms. Advanced five-axis probe head support includes native go-to-positioning, head-touch measurement and built-in collision analysis functionalities.

PolyWorks by InnovMetric | polyworks.com
Booth 134420

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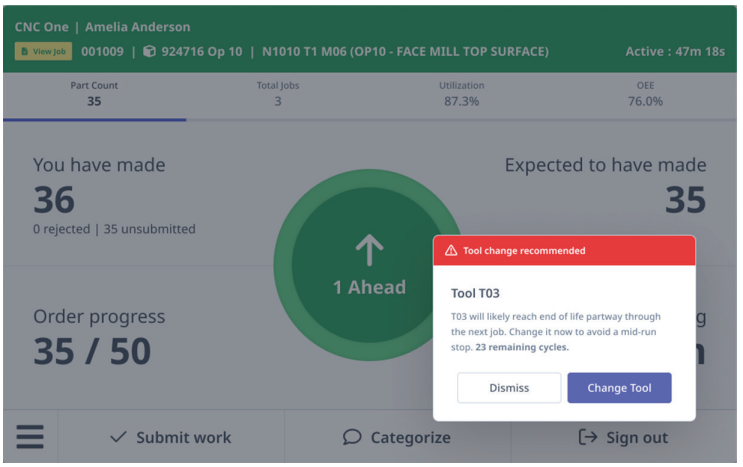
Monitoring Platform Targets Unplanned Downtime in High-Volume Machining

MachineMetrics' Tool Intelligence capability within the company's AI-powered Manufacturing Operations Platform is designed to reduce unplanned spindle downtime in high-volume machining environments.

In high-volume turning, Swiss and multispindle work, two numbers tend to decide the job: tool cost per part and spindle uptime. A tool that wears out mid-run on an unattended shift can stop a spindle, and unplanned downtime is among the most costly disruptions a shop can face. MachineMetrics ties tool life to real machine data, so shops can change tools based on what the machine is actually reporting rather than on a fixed interval.

The next phase of Tool Intelligence tracks tool wear against the live operation and provides timely prompts intended to help keep a spindle from going down mid-run. The goal, according to the company, is fewer unplanned stoppages and more uptime from machines on the shop floor.



Production-grade availability for this next phase is planned for Q4 2026. Existing tool life monitoring is available in MachineMetrics. Tool Intelligence is one of several previews and releases tied to a broader brand reveal MachineMetrics plans to make in 2026.

MachineMetrics
machinemetrics.com | Booth 133100

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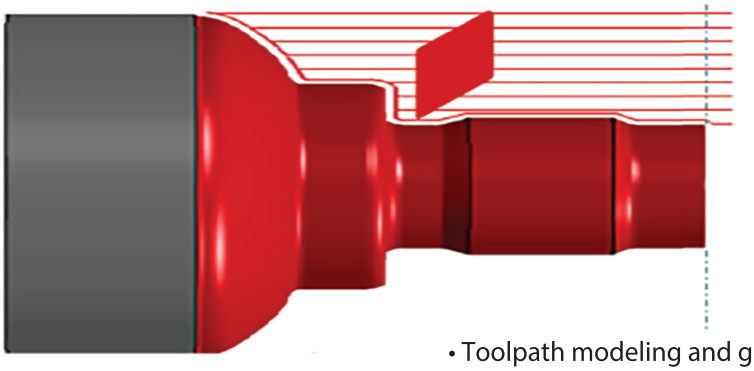

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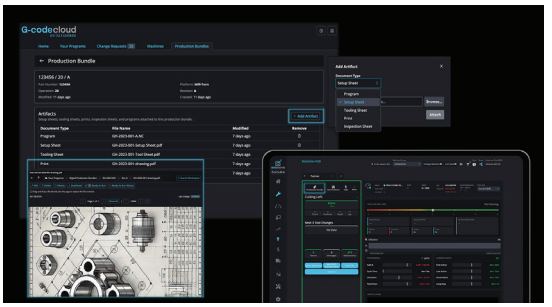
Digital Production Platforms Bring Paperless Workflows to the Shop Floor

Datanomix showcases digital production bundles built on the G-code Cloud + DNC platform. Each bundle delivers a complete part recipe to the operator via the machine HUD — the same workspace already used for production monitoring. Every asset in the bundle is automatically paired by part number and machine, so an operator cannot pull last month's revision or a setup sheet intended for a different cell. Every change is logged with who, what, when and why, so engineering, planning, ops and operators all work from a single source.



Typical workflows that go paperless with the company's digital production bundles include:

- The print, accessible at the machine
- Digital setup sheets
- Digital tooling sheets
- Digital inspection sheets
- Digital work instructions.

The platform is also CMMC 2.0-compliant. Every asset in the bundle inherits the same encryption, role-based access and audit trail as the G code itself, which the company says makes the November 2026 Phase Two deadline manageable for shops in the DoD supply chain.

Datanomix | datanomix.io | Booth 135521

CAD/CAM Software Features Advanced Machining Strategies

Open Mind Technologies highlights the Hypermill 2026 CAD/CAM software suite, which features a broad range of enhanced machining strategies and programming capabilities designed to increase programming speed, machining reliability and surface quality. Hypermill 2026 delivers advancements for 2.5D, 3D, precision five-axis and mill-turn machining applications.

Hypermill 2026 introduces advancements in rest machining technology that optimize tool paths and create smoother machining transitions by automatically detecting rest material while accounting for clearance and feed specifications. The five-axis rest machining strategy has been redesigned with calculation algorithms for Z-level, parallel and normal machining strategies, providing precise and reliable machining of complex geometries.

Further improvements include optimized five-axis cutter orientation determination and enhanced collision avoidance for smoother simultaneous movements. A minimum clearance angle option gives programmers greater tool control by promoting machining with a defined clearance angle between the tool shank and workpiece.

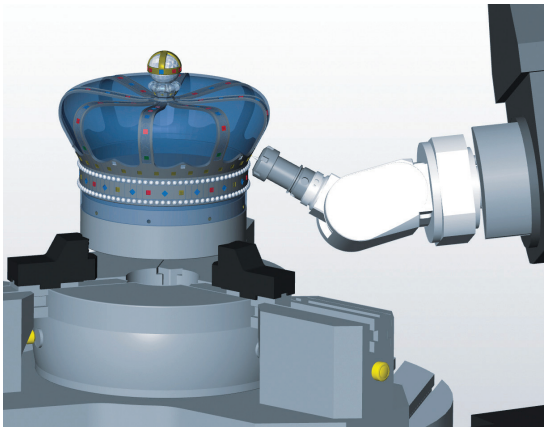
For more reliable deburring of cross holes and internal threads, a hole brush tool improves the hole brushing strategies to automatically alternate spindle rotation direction during multiple brushing passes. In addition, both the five-axis deburring and five-axis hole deburring strategies now automatically optimize contour sequences and milling directions.

When performing five-axis multiblade point milling, Hypermill 2026 provides more robust toolpaths and smoother machine movements for complex impeller and blisk geometries.

A 2D hale machining strategy produces surfaces without processing marks across the sealing direction. The strategy provides an alternative to conventional milling because material removal occurs without active spindle speed while the spindle axis continuously aligns the tool edge to the contour. Hale machining is currently available for machines equipped with Siemens controls.

Programming in Hypermill 2026 has been enhanced with the ability to program right-angle heads in Hypermill Tool Builder while avoiding collisions through detailed simulation and collision tracking.

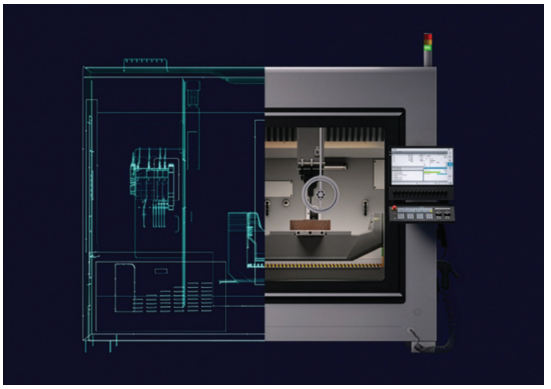
Open Mind Technologies USA Inc.
openmind-tech.com | Booth 133351



AI-Powered Solutions Accelerate Digital Transformation

Siemens highlights its latest advancements in CNC automation, digitalization and AI-powered manufacturing. Siemens demonstrates how part manufacturers and machine builders can accelerate digital and sustainable transformation across the entire manufacturing process chain — from design and planning to production and optimization.

Siemens aims to showcase this with an end-to-end manufacturing demonstration built around a jet engine pump component, illustrating value creation across the digital thread. The showcase integrates design, programming, simulation, execution and optimization workflows using Siemens technologies including NX, Teamcenter and the CNC Digital Twin (Run MyVirtual Machine), combined with AM and subtractive processes.



Siemens' booth also features:

- **Run MyVirtual Machine:** Siemens highlights its virtual CNC platform that enables part manufacturers to validate and optimize machining processes in a digital twin before production, reducing commissioning time and improving first-part quality.
- **Sinumerik One and Sinumerik 828 controls:** Siemens features advancements in CNC hardware automation and digitalization software, demonstrating how next-generation Sinumerik control technology is designed to enable faster, more flexible and more precise machining.

Siemens also showcases engineering and commissioning solutions for machine tool builders, including Create MyVirtual Machine, virtual commissioning, robotics integration, next-generation Sinamics drive systems, industrial AI and cybersecurity.

| Siemens | usa.siemens.com/cnc | Booth 133249

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Process Control Systems Streamline Automation

Caron Engineering demonstrates how connected automation and real-time process control technologies help address the challenges of reducing scrap, improving process consistency, shortening cycle times and automating production — all while machining more complex parts with tighter tolerances.

Caron's booth features a fully automated live-cutting cell where CNC machines, automation, tooling data, measurement systems and process intelligence work together continuously in real time to improve machining stability, eliminate manual processes and increase operational reliability.



At the center of the demonstration is MiConnect, Caron Engineering's low-code manufacturing automation platform designed to simplify communication and orchestration across machines, robots, sensors, gaging systems and software platforms. According to the company, MiConnect enables manufacturers to rapidly build and deploy automation workflows that streamline production and coordinate entire machining cells without complex custom programming.

The demonstration also features Caron Engineering's complete process control ecosystem, including:

- Tool Monitoring Adaptive Control (TMAC) for real-time cutting optimization, adaptive feed control and tool breakage detection
- AutoComp closed-loop dimensional feedback with automatic CNC offset compensation
- ToolConnect RFID and barcode-based tool data management and transfer
- DTect-It advanced sensor analysis for machine health, vibration monitoring and predictive process intelligence.

Caron Engineering Inc. | caroneng.com
Booth 134742

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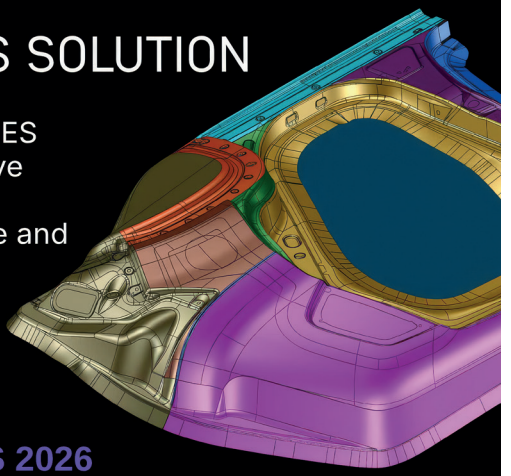


Visit Tebis at Booth 133230 at IMTS 2026

DECODING COMPLEXITY

AI Platform Helps Manufacturers Get More from Existing ERP Data

Genius ERP showcases Genius Cortex, demonstrating how AI can help manufacturers get more from the ERP system they are already using.

Built directly into Genius ERP, Genius Cortex is an AI and automation platform designed to help manufacturers find information faster, reduce manual work, connect data across systems and make more informed decisions using the information already inside their existing ERP.

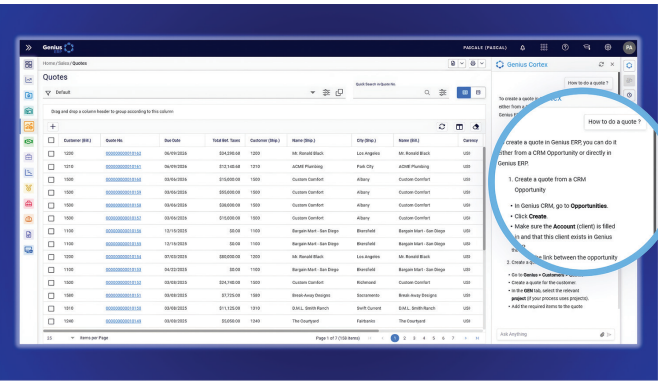
Unlike standalone AI tools, Genius Cortex works within existing ERP workflows and processes. Highlighted capabilities include a built-in AI chatbot, natural language search, intelligent document processing, automated data capture, Outlook integration, workflow automation and AI-driven recommendations that support day-to-day decision making.

"Manufacturers depend on their ERP to connect engineering, production, inventory, purchasing and finance," says Dom Vézina, general manager of Genius ERP. "Genius Cortex builds on that foundation by helping users find information faster, automate routine work and make better use of the data."

Genius ERP continues to expand Cortex with AI capabilities designed to help manufacturers automate routine tasks, improve decision making and get more value from their ERP data. Coming next are AI-driven purchasing recommendations designed to help buyers make more informed decisions using historical business data and operational patterns.

Genius ERP demonstrates the latest AI and automation capabilities in Genius Cortex, showing how manufacturers are using them to reduce manual work, access information faster and make more informed decisions.

| Genius ERP | geniuserp.com | Booth 133264







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CHRIS PASION | MANAGING EDITOR | cpasion@gardner.media

Spindle Probe Combines Touch-Trigger, Scanning, Surface Finish Verification

Renishaw Inc. introduces the RMP400S, a multipurpose machine tool probe that combines touch-trigger, scanning and surface finish verification in a single spindle probe.

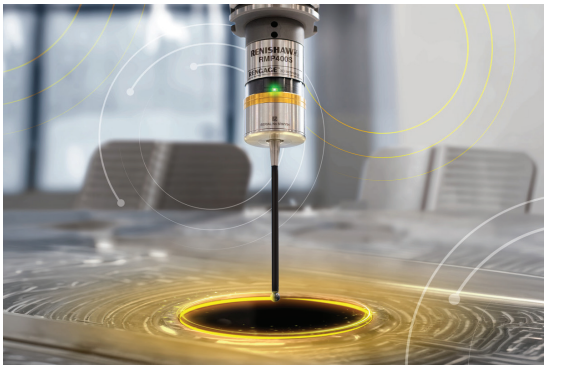
The RMP400S uses Renishaw's custom Rengage technology, a strain gage technology for high-accuracy probing that can achieve a repeatability of 0.25 µm and surface finish Ra of 0.5 µm. Advancements to this technology allow for lower trigger forces, facilitate precise scanning measurements and reduce part marking.

The RMP400S improves on-machine measurement capabilities by providing high-density scanning data for both form and surface finish verification. It supports improved in-process control directly on the machine, helping engineers streamline inspection workflows.

The RMP400S is programmed with Renishaw's Inspection Plus software, which the company says has broad user acceptance and a long-standing presence in the global market. Updated to include scanning, it provides a wide range of probing cycles, allowing the RMP400S to act as a direct replacement for existing Renishaw touch-trigger probes.

Inspection Plus also promotes compatibility with reporting tools including Renishaw Central, Renishaw's smart manufacturing data platform, allowing for continued use of existing reporting and workflow processes.

Renishaw Inc. | renishaw.com
Booths 134314, 134524



CMM Supports Precise, Flexible Machining Workflows

Zeiss Industrial Quality Solutions showcases metrology technologies and software designed to support manufacturing processes with precise data, including the Zeiss Contura CMM.

The Zeiss Contura is designed to combine reliable accuracy with optimal flexibility. At the core of the system is Zeiss multiapplication sensor system (MASS) technology, which allows users to quickly switch between a wide range of tactile and optical sensors on a single platform, enabling the right measurement approach for every application without added complexity.



This versatility supports everything from standard dimensional inspection to advanced multisensor measurement, including optional four-axis scanning with a rotary table for more complex geometries. Features such as automated probe changing and optimized ergonomics help promote high-precision measurement that remains efficient and accessible within real-world shop-floor constraints.

Zeiss says the Contura fits directly into modern machining workflows, helping teams move beyond simple pass/fail inspection. By capturing high-precision measurement data with consistent, repeatable accuracy, the system is designed to help manufacturers identify variation earlier, reduce rework and maintain stable processes across parts, programs and operators. According to the company, improved measuring speed combined with dependable accuracy helps performance keep pace with production demands.

Zeiss Contura runs on Zeiss Calypso software for measurement and inspection. Together, Zeiss Contura and its software ecosystem demonstrate an integrated, data-driven part of the production workflow with built-in support for smart services and Industry 4.0 connectivity.

Zeiss Industrial Quality Solutions
zeiss.com/metrology | Booth 134302

Measurement Platform Improves Control in Industrial Balancing

CEMB introduces the B20 measuring instrumentation, a platform designed to bring greater efficiency, reliability and control to industrial balancing processes. The B20 combines advanced hardware and software to support modern production environments.

The system features an industrial PC integrated into the CEMB measuring console and equipped with Windows 11, offering a fast, stable and reliable operating environment. This panel PC has been engineered to meet the demands of production settings where operational continuity, cybersecurity and process stability are essential.

The touchscreen interface is designed to provide a modern and intuitive user experience, making each operation clearer and faster. The 16:9 display gives operators expanded visibility and the ability to monitor the entire process at a glance. The redesigned UI streamlines daily activities, while the tree-structured diagram interface guides users through functions and parameters to improve workflow management.

B20 software is designed to simplify the operator's work, improve productivity and support smarter process control to adapt to today's production workflows.

CEMB USA-BL Systems | cemb-usa.com
Booth 134846



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Get Demos of the HG Gages at:
IMTS2026 **BOOTH #134244**

Laser Measuring System Supports Micromachining Precision

Blum-Novotest highlights several product for the automation of machining processes. Among them is the LC54-Digilog, a compact laser measuring system in the LaserControl Digilog series. The system is designed for tool measurement and monitoring in micromachining.



The demands on precision in micromachining are constantly growing — especially when it comes to measuring extremely small tools. The LC54-Digilog is designed to meet these challenges, offering the full range of functions of the LaserControl Digilog laser measuring systems for tools in the 5 µm to 16 mm diameter range.

The LC54-Digilog can generate several thousand measured values per second, with dynamic adjustment of the measurement speed to the nominal speed of the tool. Each cutting edge is measured individually, enabling precise comparison between the shortest and longest cutting edges. This results in a repeat accuracy of 0.2 µm, and concentricity errors caused by contamination on the toolholder are automatically detected.

Blum-Novotest Inc. | blum-novotest.com
Booth 134710

Air Gage Readout Provides Fast, Accurate Measurements

Western Gage Corp.'s Micro Ili air gage readout provides fast and accurate measurements of internal and external diameters. The air gage instrument features a built-in microprocessor, digital and analog displays, USB and RS-232 serial data outputs and auto calibration. Diameters are displayed with resolutions to 5 micro-inches or 0.1 microns. Applications include measurement of IDs, ODs and tapers of toolholders and medical implants.



Western Gage Corp. also designs and manufactures custom air gages for precision ID and OD match fittings, inspecting flatness, concentricity, perpendicularity and parallelism.

Western Gage Corp. | westerngage.com
Booth 134602

Tool Presetter Features Ergonomic Measurement Control

Omega TMM showcases the Sedeo tool presetter designed for ergonomic operation and precise control. It enables operators to use a full three-axis CNC presetter controlled via joystick while in the seated position. The unit features snap-gage and large-diameter capability intended to make it easy to preset adjustable face/shell mills and bulkhead cutters.

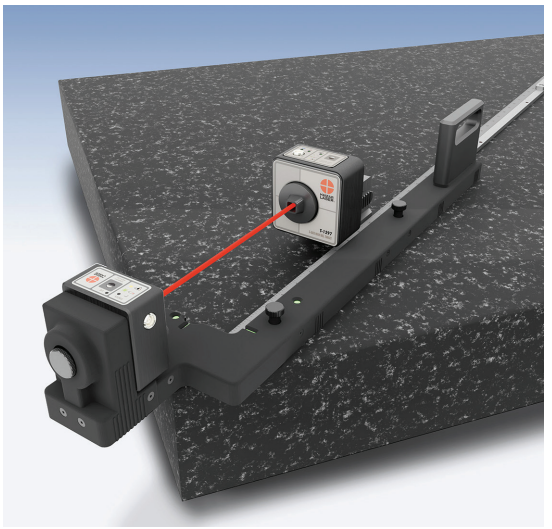
According to the company, the Sedeo was developed with the goal of providing engineering capability and ease of use in measuring based on operator requirements.

Omega TMM | omegatmm.com | Booth 432220



Laser Surface Plate Calibration System Features Enhanced Software Features

Hamar Laser Instruments Inc. demonstrates its geometry and shaft alignment systems, including its L-703SP surface plate calibration system. The L-703SP was recently enhanced with an optional Lapping Line View software module and a A-703SP-LM-M "mirrored" surface-plate mounting fixture, making the system faster and more versatile.

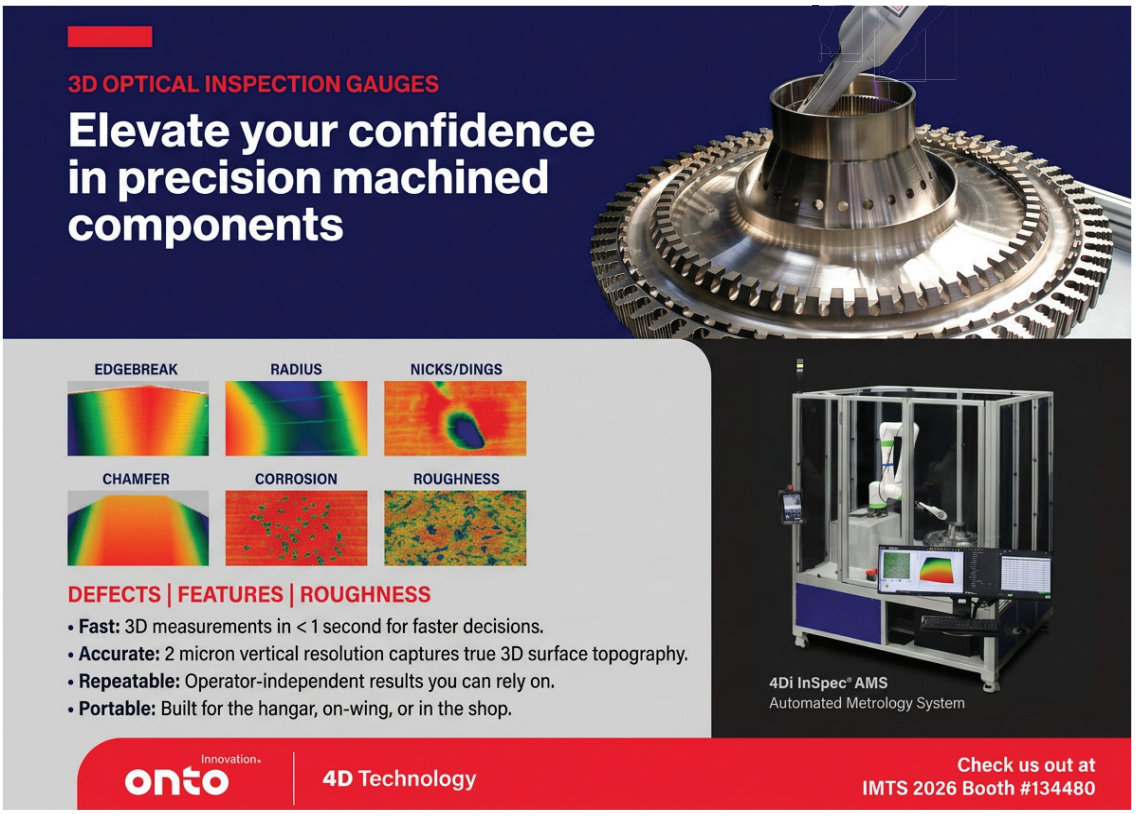


The L-703SP is a laser-based geometry calibration system designed to quickly check surface plate calibration. According to the company, it is highly repeatable, with flexible measuring increments, high resolution and accuracy, easy setup and training and fast data collection. The system is designed to reduce the time for calibrating surface plates compared with conventional methods like electronic levels, autocollimators and laser interferometers.

Lapping Line View is an optional data-taking module within the L-703SP system's Plane6 software that streamlines surface plate resurfacing. Users can make quick checks of a single line segment in approximately two to four minutes to see how much the line's flatness error was reduced after resurfacing.

The A-703SP-LM-M is a "mirrored" version of the standard laser mounting fixture for checking line segments that require the laser fixture position to be opposite of the normal position, such as when the surface plate is against a wall or other obstruction.

Hamar Laser Instruments Inc. | hamarlaser.com | Booth 134629



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Optical Metrology Platform Features Mulitsensor Measuring Head

Mahr Inc.'s MarSurf3D MS optical metrology platform features a multisensor measuring head designed to provide flexibility, modularity and precision. The 3D optical platform enables manufacturers to customize and configure a single measurement system to meet specific application requirements, eliminating the need to switch between instruments.

The MarSurf3D MS is capable of real-time measurements down to the subnanometer range with a flexible multisensor measuring head that combines three distinct area-based measuring technologies:

- **LED confocal:** The custom multipinhole technology promotes ultra-fast image capture with high signal quality, providing maximum repeatability down to the nanometer range on nearly any surface condition
- **White-light interferometry:** Offers vertical resolution in the sub-nanometer range regardless of magnification, making it well-suited for measurement of ultra-precise step heights and very low roughness surfaces
- **Focus variation with active lighting:** Developed specifically for measuring the geometry of large, rough surfaces, allowing steeply inclined surfaces (up to 86 degrees) and large vertical ranges to be captured in a single measurement

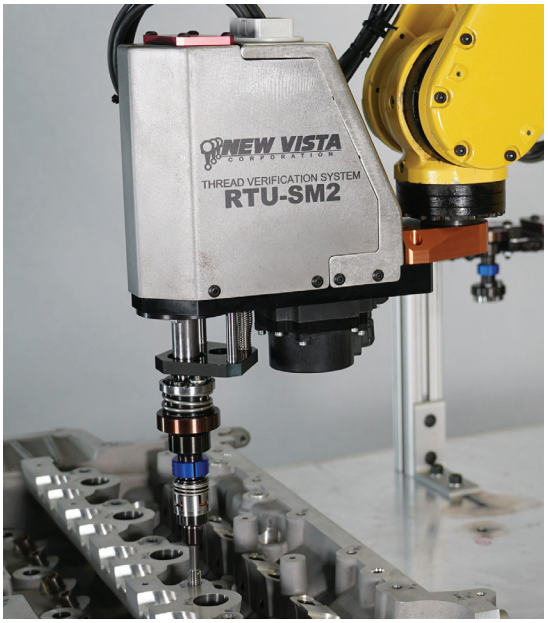
MarSurf3D MS technology is available with a wide variety of sizes off-the-shelf, ranging from 50 × 50 × 35 mm XYZ on the MX3050 portable instrument up to 500 × 400 × 100 mm XYZ axes on the GS3501. The MarSurf3D MS SX3200 features a compact design with 200 × 200 × 75 mm XYZ axes. Built for versatility, the platform can be used in laboratories, quality assurance environments or directly on the production floor. It is designed to address a broad spectrum of manufacturing applications, including structured, rough and smooth surfaces, steep flanks, layer thickness and large-height measuring ranges.



Mahr Inc. | mahr.com | Booth 134255

Robotic Thread-Gaging System Automates Part Verification

New Vista Corp.'s RTU Robotic Gaging Unit is an automated system designed to replace the manual go and no-go thread gaging process. Mounted on a robot arm, the RTU is said to verify a wide range of thread sizes at any angle in seconds.

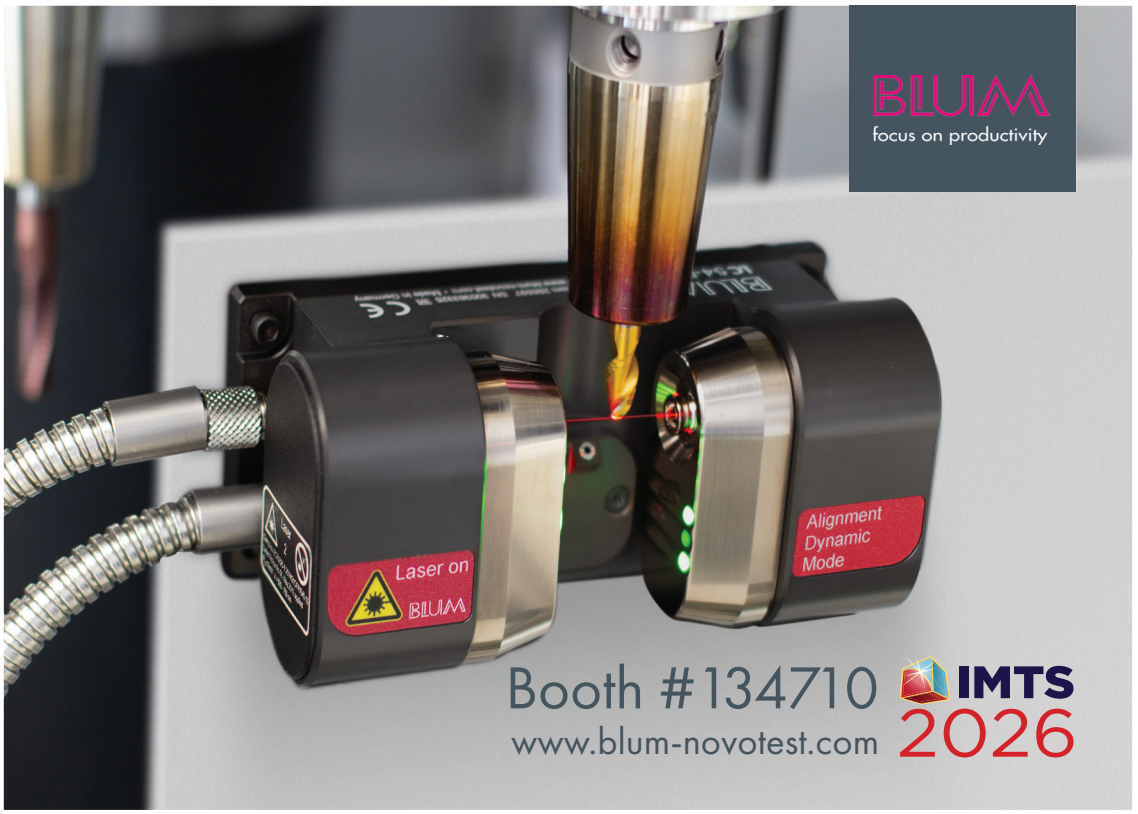


The system is designed to integrate with robots of any make or model, whether collaborative or industrial. Thread gage members employed for each application can be changed automatically using New Vista's tool docking system. Torque and depth settings are also changed automatically during operation to accommodate any thread size or length.

New Vista's compliant toolholders, supplied with every system, accommodate both X-Y and angular misalignments. A breakaway feature helps ensure that tooling and parts are not damaged in the event of an accidental crash.

The RTU is well-suited to a wide range of applications, offering speed and flexibility in an affordable package. It is available as a gaging unit only, for integration with an existing robot or as a turnkey solution with robot and fixturing provided by New Vista.

New Vista Corp. | newvistacorp.com
Booth 134532



Metrology Solutions Support Advanced Gaging

The L.S. Starrett Co. showcases quality control inspection technology including its HDV 250 Digital Comparator system, electronic height gages, a thread gaging line and the Digital Readout series for advanced gaging applications. Starrett is also featuring its full line of precision solutions from vision metrology systems and measuring tools to granite surface plate, laser, force measurement and custom gaging.

The Starrett HDV 250 Digital Comparator provides increased surface illumination and improved measurement capability via a high-resolution digital monitor, enabling better images via comparator technology in a compact, shopfloor-friendly design. Features of the HDV 250 include integrated LED ring light-based surface illumination for improved contrast and edge definition, a high-resolution digital video camera, micron-level accuracy and full digital documentation ability for statistical process control.

Other Starrett metrology solutions are also featured, such as the AVR 400 vision system, the company's largest benchtop platform, well-suited for measuring a wide range of parts; the HDV 400 CNC digital comparator, which combines features of a horizontal comparator and a vision system; and the MMS 1000 force measurement system for determining load, distance, break applications and complex material testing.

Starrett also showcases its HG series of electronic height gages designed for intuitive and ergonomic



operation, reliable measurement accuracy and increased productivity. A large touchscreen interface with clear icons and simple menu options is designed to be easy to learn and use, speeding up inspection. Dual handles, an integrated air-bearing system and a dynamic thumbwheel provide streamlined positioning and movement. Gages are offered in ranges of 0-14", 0-24" and 0-40" (0-350 mm, 0-600 mm and 0-1,000 mm).

The Starrett 3756 height gages display design with a large, easy-to-view backlit LED display along with a crank wheel for faster, reliable adjustment when measuring a number of different parts or features.

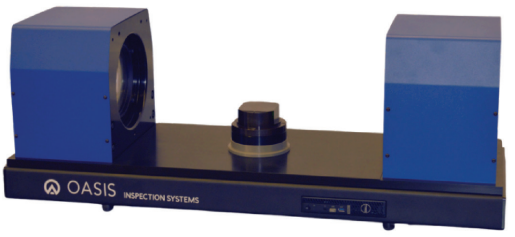
The L.S. Starrett Co. | starrett.com | Booth 134244

Measurement Platform Expands Optical Inspection Capabilities

Oasis Inspection Systems' Oasis Ultra optical inspection system is designed to deliver optimal accuracy while simplifying the inspection process.

The Oasis Ultra features a 40% larger field of view (4.5" × 3.7") compared to previous models, enabling operators to inspect larger components and capture more features in a single image. This expanded measurement area reduces part repositioning, improves throughput and streamlines quality control workflows.

The system features an optical platform which



combines advanced optics with a high-resolution imaging system said to be capable of providing measurement accuracy of up to ±0.0002". This level of precision makes the Oasis Ultra well-suited for manufacturers producing larger, tight-tolerance components in industries such as aerospace, automotive, medical devices, precision machining and metal stamping.

Designed for both shopfloor and laboratory environments, the Oasis Ultra incorporates a rugged industrial enclosure and integrated PC architecture, creating a compact, all-in-one inspection solution. The Oasis software platform provides real-time measurements at six updates per second, enabling fast and repeatable inspections with minimal training requirements.

In addition, the system supports multiple reporting formats, including PDF, CSV and TXT exports, helping manufacturers improve traceability and simplify quality documentation.

Oasis Inspection Systems
oasisinspectionsystems.com | Booth 134746

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Contrax moves to Grand Rapids, MI, October 21-22, 2026!
Exhibit and attendee registration is open at ContraxShows.com

CHRIS PASION | MANAGING EDITOR | cpasion@gardner.media

Automation System Boosts Productivity in Compact Footprint



Lang Technik's RoboTrex Compact Automation System is a robotic automation solution designed to help manufacturers maximize machine utilization, increase productivity and reduce labor dependency within a compact footprint.

Developed for small-part manufacturing environments, the RoboTrex Compact combines robotic workpiece handling with high-density storage to support extended unattended machining operations. The system features an integrated FANUC industrial robot capable of automatically loading and unloading workpieces weighing up to 7 kg (15.4 lbs), helping manufacturers increase spindle uptime and improve overall equipment efficiency.

Despite occupying only approximately 2 m^2 of floor space, the RoboTrex Compact offers substantial storage capacity, accommodating up to 100 Makro-Grip 46 Micro vises or 50 Makro-Grip 77 vises. This capacity enables longer production runs and supports lights-out manufacturing strategies without requiring additional floor space.

| Lang Technik USA | lang-technik-usa.com
Booth 236637

Advanced Robotics Automation Solutions Simplify Machine Tending

KUKA Robotics showcases its advanced robotic automation solutions for machine tool tending, material handling and robotic milling with OEM and integration partners. Experience live demonstrations that show how the company makes automation easier and how its industrial robots, autonomous mobile platforms and partner technologies work together in real-world production environments.

KUKA highlights robotic machine tool automation through integrated demonstrations featuring multiple CNC machine tool OEM partners. These applications include Emag, Matsuura and Syil machines, each paired with a standardized KUKA robotic system to deliver flexible machine-tending solutions that simplify deployment across production environments.

For job shops, the Syil machine tool leverages Siemens Sinumerik software with KUKA's MxAutomation to enable seamless control of both the CNC machines and KUKA robots from a single interface. KUKA also demonstrates a full-service automation model in collaboration with Formic Automation to show how manufacturers adopt robotic machine tending through a scalable, service-based approach that reduces complexity and supports evolving production needs.

As part of the machine tending demonstrations, KUKA System Partner Mairotec's MairoFlex Compact 8 system, which features KUKA's KR Cybertech nano robot and AI vision technology, picks large-diameter parts from a randomly assorted bin and places them onto the portable trays of KUKA's autonomous mobile platform, the KMP 600P. The system then demonstrates automated machine tool tending by transporting the tooling to a lathe to illustrate a standardized robotic solution that combines 3D bin picking, mobile automation and seamless machine interaction within a single production cycle.

KUKA's material handling and finishing demonstration showcases a fully integrated, multistep process developed in collaboration with KUKA system partner specialty tooling systems.

| KUKA Robotics Corp. | kuka.com | Booth 236807



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Robotic Solutions Automate CNC Machine Tending





Mitsubishi Electric Automation Inc. features live demonstrations of LoadMate Plus and ARIA, two pre-engineered robotic machine tending solutions designed to help manufacturers automate CNC mills and lathes with confidence, flexibility and scalability.

Automated machine tending enables longer spindle uptime, improved process consistency and redeployment of skilled workers to higher-value tasks. Robotic tending also reduces unplanned downtime and supports lights-out or extended-hours production.

"For many manufacturers, robotic machine tending is one of the most practical and financially justifiable entry points into automation," says David Simak, product manager at Mitsubishi Electric Automation. "When implemented correctly, it provides productivity improvements that can be measured quickly on the shop floor."

LoadMate Plus is designed for quick setup and long-term deployment at a single machine. It can be customized for different machine layouts, part sizes and safety requirements while integrating directly with Mitsubishi Electric CNCs and robots.

ARIA (Automated Robotic Industrial Assistant) is a compact, configurable solution for mill and lathe tending in space-constrained environments. It supports multiple robot types and can be relocated within a facility, making it well-suited for shared or expanding automation strategies.

| Mitsubishi Electric Automation | us.mitsubishielectric.com | Booth 338136

AI System Boosts Automation Flexibility

Trinity Robotics Automation showcases Trinity AI, built with Intrinsic Intelligence. Designed for high-mix CNC manufacturing, Trinity AI is intended to improve flexibility and simplicity of robotic machine tending.

Unlike traditional robotic automation that requires extensive programming and repeatable production runs, Trinity AI leverages AI capabilities, developer tools and an operating system from Intrinsic, an AI Robotics Group at Google, to adapt to changing parts, setups and production requirements. By combining autonomous motion planning, advanced vision technology and intuitive user interfaces, the system enables manufacturers to automate CNC machine tending without robot programming expertise.

Using 3D CAD geometry, Trinity AI understands part shape and size to automatically generate robot paths while managing collision avoidance and safe part handling. Integrated perception technology allows the system to identify part locations and adjust as needed.

Built for manufacturers managing frequent changeovers, smaller batch sizes and labor constraints, Trinity AI can increase spindle utilization, extend production hours and maximize existing machine tool investments. The compact system features a six-axis robot, quick-change grippers and a user-friendly interface to simplify automation adoption on the shop floor.



| Trinity Robotics Automation | trinityautomation.com Booth 339070



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lang-technik-usa.com

Increased Run Time = Increased Productivity

Automation solutions for every shop.

Automation solutions from **LANG Technik** help shops of all sizes maximize spindle utilization and increase unattended machining time.

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RoboTrex Multi-Cart



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IMTS 2026
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Automated Welding Solution Increases Throughput

Hiwin showcases its Welding Robot Solution, a fully integrated robotic welding platform designed to improve weld quality, increase throughput and reduce labor challenges in modern manufacturing environments.

Built around Hiwin's six-axis industrial robot technology, the welding solution combines precise motion control with advanced welding functionality to deliver consistent, repeatable results across a wide range of applications. The system features industry-leading repeatability of ±0.05 mm, enabling manufacturers to maintain tight tolerances and high-quality welds while reducing rework and scrap.

The Hiwin Welding Robot Solution incorporates intelligent features, including touch sensing, through-arc seam tracking, weaving functions, TCP auto recovery and smart welding technology. These capabilities allow the system to automatically compensate for part variations, improve weld path accuracy and simplify programming, helping users achieve optimal performance.

Designed for flexibility, the system supports integration with leading welding power supplies and can be configured for a variety of welding processes and applications. Whether manufacturers are looking to automate repetitive welds, improve productivity or address skilled labor shortages, the Hiwin Welding Robot Solution offers a scalable and cost-effective path to automation.

Attendees can see the welding robot in action on both horizontal and vertical rotary table unit (RTU) configurations, simulating real-world welding applications. The demonstration showcases the system's precise motion control, coordinated multiaxis movement and



advanced welding capabilities. Visitors can also speak with Hiwin automation experts to learn how robotic welding solutions can help increase productivity, improve quality and address workforce challenges.

Hiwin Corp. | hiwin.com | Booth 236124

Bar Feeders Reduce Vibration, Boost CNC Turning Productivity

Lexair showcases the RhinoBar product family of bar feeders, including the RhinoBar, Mini RhinoBar and Multi Mini RhinoBar. The lineup provides hydrodynamic bar feeding solutions for Swiss-type lathes and fixed-head CNC turning centers. Each system is designed to improve machining stability and spindle efficiency.

Hydrodynamic bar feeding systems use pressurized oil to center and stabilize rotating material, reduce vibration and material whip, as well as enable machines to run faster and more consistently. The result is improved surface finishes, tighter tolerances, longer tool life, reduced scrap and increased machine utilization.

Hydrodynamic bar feeding technology is available in a variety of configurations designed to support different machine platforms and production requirements. Full-length systems support extended unattended operation, while compact designs provide the same stabilization benefits for shorter bar lengths and space-constrained applications.



For manufacturers looking to increase throughput, reduce vibration and improve overall process consistency, hydrodynamic bar feeding technology is said to provide a practical path toward greater productivity.

Lexair Inc. | lexairinc.com
Booth 339263

Bar Feeders Boost Spindle Uptime, Flexibility

The LNS Express Line of bar feeders is designed for flexibility and productivity in modern machining environments. Primarily designed to support sliding headstock lathes, the Express family combines bar guiding technology, fast setup capabilities and machining support to help manufacturers maximize spindle uptime and operational efficiency.

Built for shop automation systems, the Express Line is focused on quick changeovers, ergonomic operation and high-performance machining support. From small-batch production to high-volume manufacturing, the Express family is engineered to simplify daily operations while improving overall productivity and reliability.

Expanding on this platform, LNS recently introduced the Express 346 evo. Featuring a self-adjusting guiding system, the Express 346 evo is designed to reduce vibration, eliminate traditional guide channel changes and reduce setup times for bar diameters ranging from 3-46 mm. This design is said to improve flexibility while maintaining bar stability and machining performance.



LNS also introduces the Express 126, designed specifically for small- and medium-diameter applications. The Express 126 features a dual-loading system capable of handling bar diameters from 1-26 mm. Combined with automatic loading selection, small-bar guiding technology and simplified controls, the Express 126 is well-suited for shops seeking precision, reliability and ease of operation.

| LNS North America Inc. | Ins-northamerica.com | Booth 338586



Short Loader Supports Autonomous Material Handling

Edge Technologies partners with KUKA to feature a FMB SL110 short loader with a KUKA robot to demonstrate autonomous material handling.



The FMB SL110 is a short bar loader that handles bar diameters from 10-110 mm (0.39-4.33"). An inclined magazine rack holds up to 56 bars at 10 mm (0.39") or five bars at 110 mm (4.33"). The Edge Technologies display features FMB's bar lift accessory, a built-in bar lift that safely lifts bars into the magazine from floor level. KUKA's automated material handling system automatically loads the bar lift mechanism.

In addition to increased automation, the FMB SL110 boasts an intuitive control panel and mechanical functions that improve efficiency. A folding axial shift (X-axis) minimizes the footprint, and the axial shift allows for maintenance access and easy spindle liner changeovers. A polycarbonate window on the hood makes it easy to observe bar loading. A servo-electric motor automates V-tray adjustment via the control panel, eliminating manual bar-center setup. It is well-suited for square, hex or other profiled materials.

"Customers needed a safer and less labor-intensive way to load heavy bar stock," says Kevin Meehan, president of Edge Technologies. "Our partnership with KUKA will further automate the process and enable shops to extend lights-out machining."

Edge Technologies also features the FMB SL110 bar feeder, FMB Turbo 2-20 6' magazine bar feeder, FMB Micromag 20 12' magazine bar feeder, FMB Turbo RS 3-38 with Auto Adjust 12' magazine bar feeder, FMB Turbo RS 4-45 with Auto Adjust 12' magazine bar feeder, FMB Turbo 5-65 12' magazine bar feeder, Rebel 80 Servo V3 short loader, Ranger 120 6' magazine bar feeder, Scout 320 12' magazine bar feeder, Minuteman 320 12' magazine bar feeder and Patriot 338 12' magazine bar feeder.

Edge Technologies | edgetechnologies.com
Booth 338440

Physical AI-Supported Automation Platform Enhances Deployment

Universal Robots (UR) showcases an approach to industrial automation designed for the era of physical AI — changing how applications are deployed, scaled and continuously improved. This approach moves beyond traditional programming and standalone robot systems toward solutions that can be configured, adapted and enhanced over time. It reflects a broader shift from fixed automation cells to more intelligent, connected and evolving robotic environments capable of addressing a wider range of real-world applications.

The foundation for these advancements is PolyScope X, UR's control software. Built on a modern technology stack with JavaScript, containerized applications and native ROS 2 support, PolyScope X combines UR's proven motion-control platform with a significantly improved user experience. Graphical node-based programming, guided workflows and deep scripting capabilities are designed to make it easier to deploy applications quickly while enabling more advanced, AI- and vision-assisted use cases. The company says this approach lowers the barrier for entry to automation while enabling more adaptive and intelligent operation over time.

Universal Robots USA Inc. | universal-robots.com
Booth 236744



Pallet System Supports Scalable Automation

Fastems' Flexible Pallet System – Stationary (FPS-S) is a compact, flexible and scalable pallet automation solution designed to help manufacturers take their first step into automation. The modular FPS-S makes efficient use of available floor space while providing a clear growth path from a single-machine automation solution to a full-scale Flexible Manufacturing System (FMS).

In its base configuration, the FPS-S combines a stationary stacker crane with a four- or five-axis CNC machine tool to increase spindle utilization through automated pallet handling and lights-out manufacturing capabilities, while maintaining consistent quality.



The system integrates with more than 90 machine tool brands and can also be connected to machine tools without an automatic pallet changer (APC), making it well-suited for a wide range of manufacturing environments.

The FPS-S is available in payload classes of 500, 1,000 and 1,500 kg and supports pallet sizes up to 630 × 630 mm. Its modular architecture features a 360-degree layout concept, allowing machine tools, storage modules and loading stations to be positioned on any side of the system. The actual footprint depends entirely on the selected configuration.

One of the key advantages of the FPS-S is its scalability, the company says. Starting with one or two machine tools, manufacturers can gradually expand the system into a complete linear FMS. By adding additional FPS-S modules and a rail-guided stacker crane, the system can be extended over time to connect multiple machine tools within a flexible manufacturing environment.

Fastems LLC | fastems.com | Booth 338966

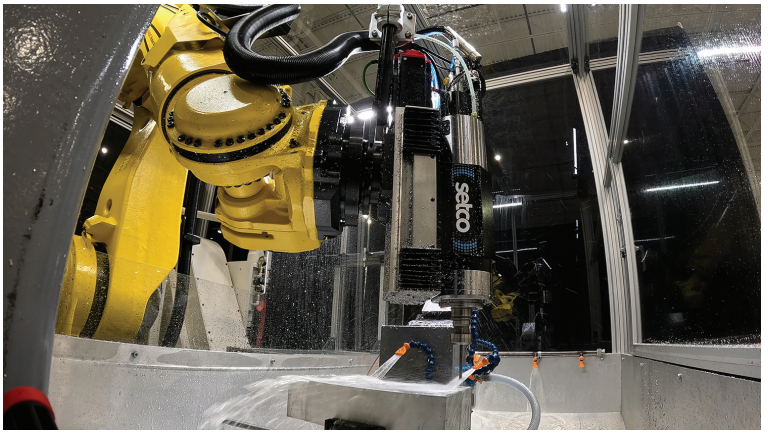


End-of-Robot Spindles Expand Robotic Machining Capabilities

Setco showcases end-of-arm spindles designed to expand the capabilities of robotic systems — transforming them into flexible machining solutions for a variety of applications. The versatility of robotic machining reduces the need for multiple dedicated machines, lowering capital investment and floorspace requirements. In addition, consistent machining quality helps minimize scrap, rework and downtime.

A key feature of Setco end-of-robot spindles is their robust construction. These spindles are designed to run continuously in demanding production environments, providing manufacturers with increased productivity through faster cycle times and improved automation.

The compact and lightweight design allows for seamless mounting on robotic arms without compromising payload capacity or motion accuracy. The spindles can be configured with or without a slide, allowing greater flexibility. Despite their reduced size, these spindles maintain high power density, providing consistent performance across a wide range of materials and applications. Advanced bearing technology and dynamic balancing support smooth operation, reduced vibration and extended service life.



Setco end-of-robot spindles are said to enable manufacturers to achieve greater agility, efficiency and precision, making them well-suited for high-mix production environments.

Setco | setco.com | Booth 432423

Machine Tool Loader Optimizes Unattended Machining



Agile Robotic Systems' Agile Flex CNC machine tool loading series is designed for unstaffed machine tending to improve manufacturing efficiency. Its compact design allows it to fit into a wide range of workshop environments, making it well-suited for facilities with limited floor space. The system is designed to provide manufacturers with a practical way to automate CNC machine loading without excessive investment.

A key advantage of the Agile Flex system is its flexibility and configurability, the company says. The system can be adapted to suit different production requirements, allowing manufacturers to respond quickly to changing demands. Its fenceless technology improves usability by providing easy access to the machine, improving workflow and reducing the barriers commonly associated with traditional automation systems.

The Agile Flex system is also designed with user-friendliness in mind. Operators do not require robot programming knowledge to use the system effectively, and the cell controller is easy to navigate. Additionally, the Agile Process Builder allows new manufacturing processes to be created and implemented in minutes, reducing setup times and increasing productivity so manufacturers can quickly adapt to new jobs and production requirements.

Agile Robotic Systems | agilerobotics.com
Booth 236530



The Trinity AI Allowed Me to Walk Away.

CJ Abraham—Owner PPD

When CJ Abraham needed to increase output, he wasn't looking for another employee—he was looking for time. **The Trinity AI, built with Intrinsic Intelligence,** transformed his existing VMC into an automated production cell, allowing him to step away from the machine and focus on growing the business.

No robot programming. No complex integration. Just intelligent machine tending that works.

TRINITY AUTOMATION
Simplifying CNC Automation

EASY TO INSTALL
Minimal setup.

EASY TO OPERATE
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EASY TO ROI
Pays for itself fast.

Other Products

CHRIS PASION | MANAGING EDITOR | cpasion@gardner.media

Tooling Program Reduces Lead Times on Custom Cutting Tools

Horn USA's Greenline rapid-turnaround program transforms approved, specialized insert designs into U.S.-manufactured tooling with no additional cost to the customer, the company says.

Through an automated qualification process, Greenline evaluates orders at entry by comparing key specifications — tool family, geometry, coating and quantity — against established program criteria. Qualifying orders are immediately routed for expedited production, allowing customers to receive Horn USA tooling with reduced lead times.

The program supports low-volume, specialized inserts for grooving, parting, slotting and form tool applications, with common PVD coatings and through-coolant options available on qualifying designs.

By combining domestic manufacturing capabilities with streamlined production processes, Greenline is designed to give manufacturers greater flexibility to respond to engineering changes, project requirements and unexpected production challenges. The result is faster access to custom tooling, improved production planning and reduced downtime.

| Horn USA Inc. | hornusa.com | Booth 431722



EDM Lineup Support Lights-Out Production

MC Machinery Systems showcases its latest advancements in EDM and precision milling technology. Visitors can experience a lineup of high-performance manufacturing solutions designed to help moldmakers, tool shops and precision manufacturers improve productivity, accuracy and profitability. Featured technologies include the Mitsubishi SG70 sinker EDM, the Mitsubishi MG Series wire EDM platform and more.

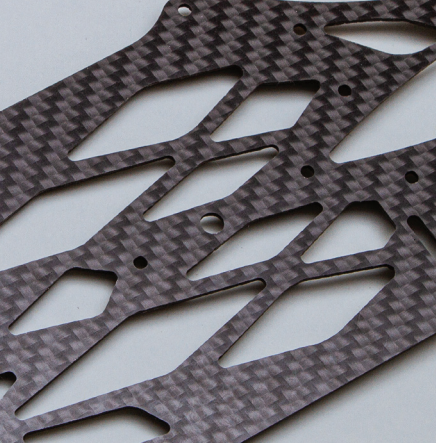


The SG70 sinker EDM combines large-part capacity with advanced machining intelligence, providing exceptional accuracy, reduced electrode wear and faster cycle times. Equipped with Mitsubishi's M800 control, IDPM3 power technology and SS Jump 5 high-speed, no-flush machining capabilities, the SG70 is engineered for demanding mold and die applications requiring precision, consistency and unattended production.

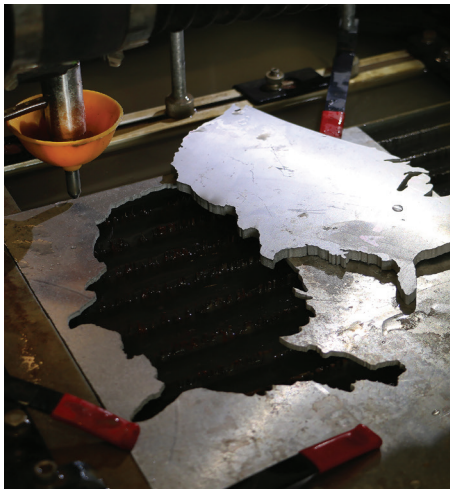
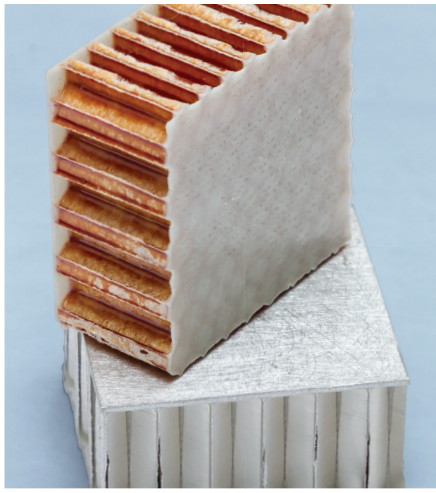
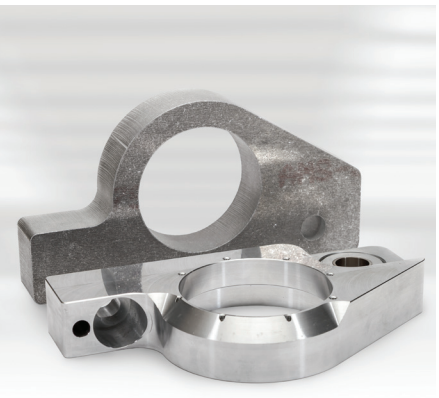
IMTS 2026 serves as the launch platform for the Mitsubishi MG Series wire EDM, the successor to the MV Series. The MG Series introduces enhanced automation, intelligent process control, improved productivity and connectivity features designed to meet the evolving demands of modern manufacturing environments.

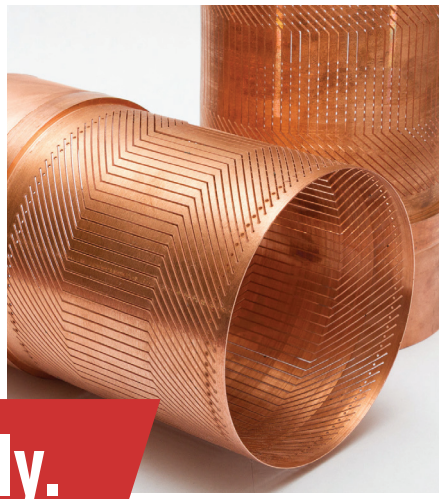
According to MC Machinery Systems, the MG Series is designed to help manufacturers achieve higher levels of precision, efficiency and lights-out production while maintaining reliability and performance.

| MC Machinery Systems Inc. | mcmachinery.com
Booth 338129







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See OMAX waterjets in action at IMTS 2026
East Building Level 3 Booth 135020

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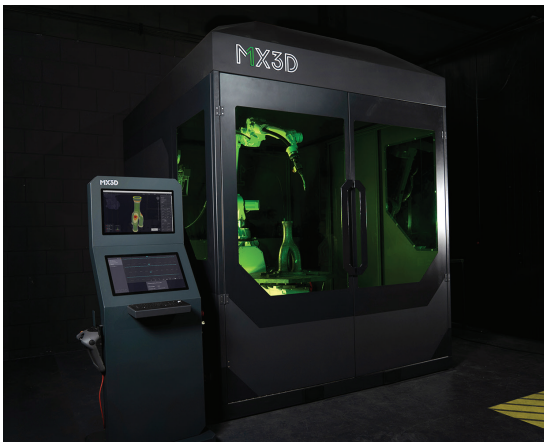
Large-Format 3D Printer Improves Production Flexibility

Phillips Corp. features the M1 Metal AM system from MX3D. Designed for large-scale metal production, the M1 is said to provide an alternative approach to producing and restoring large metal components while reducing material waste and improving production flexibility. For mold builders and tooling manufacturers, large-format additive manufacturing offers opportunities to streamline repair workflows, reduce lead times for large tooling structures and castings, and explore new approaches to complex metal fabrication. It also enables new pathways for casting replacement, particularly for large, low-volume components where traditional casting may be cost-prohibitive or involve long lead times.



By producing components closer to final geometry, manufacturers can minimize excessive material removal and reduce machining time on large or difficult-to-manufacture parts. The M1 also supports repair and remanufacturing applications where rebuilding worn or damaged areas may be more efficient than replacing an entire component.

As additive manufacturing adoption continues to evolve across tooling and industrial markets, Phillips says it is focused on helping manufacturers evaluate where additive and subtractive manufacturing can work together to improve efficiency and expand manufacturing capabilities.

Attendees can see the M1 system firsthand during live demonstrations and discuss how large-format metal additive manufacturing may support future tooling, repair and production workflows.

Phillips Corp. | phillipscorp.com | Booth 338272





WHERE COMPLEX IDEAS BECOME PRECISION PARTS

MC MACHINERY SYSTEMS, INC.

MITSUBISHI EDM

IMTS

BOOTH #338129

Metalworking Fluid Boosts Grinding Performance

Oelheld U.S. Inc. highlights the SintoGrind ETG series, a high-performance, ester-based grinding oil engineered for precision grinding applications. Using advanced renewable ester base stocks and proven SintoGrind technology, ETG is designed to provide excellent lubricity, thermal stability and grinding performance while requiring no GHS hazard labeling.

The inherently low-misting formulation and elevated flash point are said to improve operator safety and reduce oil consumption compared to conventional mineral and synthetic grinding oils commonly used in tool manufacturing. ETG is compatible with a wide range of tool materials including carbide, HSS, CBN, PCD, cermet and ceramics.



The high detergency and wetting characteristics of the ester base fluid promote continuous wheel cleaning, reducing wheel loading and helping maintain cutting efficiency throughout the grinding cycle. According to the company, this results in longer wheel life, improved profile retention and more consistent surface finishes.

SintoGrind ETG supports high metal removal rates and increased process efficiency by enabling higher speeds and feeds while maintaining dimensional accuracy and thermal control. The combination of improved wheel performance, reduced cycle times and extended fluid life supports demanding tool production and precision grinding operations.

Oelheld U.S. Inc. | oelheld.com Booth 237475

Filtration System Improves Air Quality in Industrial Environments

Midaco Corp. introduces the AFS2200 Industrial Air Filtration System. Designed for manufacturing and CNC machining environments, the AFS2200 is an industrial air filtration and circulation system intended to help reduce airborne dust, smoke, coolant mist and particulate accumulation commonly generated during machining, grinding, welding, fabrication and material processing operations.

The AFS2200 features a 2,200-cfm airflow capacity and uses a two-stage filtration system consisting of a MERV 8 pleated pre-filter and a MERV 15 secondary bag filter. The system is designed to capture airborne particulates commonly found in manufacturing environments, including particles ranging approx. from 3.0-10.0 µm.

Additional system features include:

- ½ hp direct-drive blower motor
- 115V single-phase electrical operation
- Differential pressure monitoring
- LED filter status indicators
- Replaceable disposable filters
- Heavy-duty 16-gauge steel cabinet construction
- Made in the U.S.

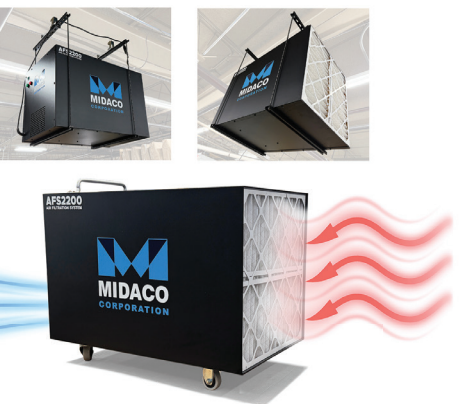
The system is available in both mobile and overhead-mounted configurations. Standard units are mounted on four heavy-duty casters, including two locking casters for positioning stability. Optional ceiling mounting brackets are also available for permanent overhead installation in facilities where floor space optimization or elevated airflow positioning is preferred.

According to Midaco specifications, the AFS2200 is said to be capable of providing:

- 11 air changes per hour (ACH) in a 1,000-square-foot facility with 12-foot ceilings
- 5.5 air changes per hour (ACH) in a 2,000-square-foot facility with 12-foot ceilings

The system is intended for use in a range of manufacturing environments including CNC machining facilities, fabrication shops, grinding operations, welding departments and industrial production plants where airborne particulate management and indoor air quality are operational considerations.

Midaco Corp. | midaco-corp.com Booth 339347



Coolant System Improves Delivery for Shrink-Fit Chuck Applications

Haimer's Cool-Flash cooling system for shrink-fit chucks is designed to direct coolant to the cutting edge through integrated slot geometry. Developed from the Cool Jet system, Cool-Flash distributes coolant through multiple precision slots that guide it along the tool shank via the chip flute and into the cutting zone.

The system operates with standard machine tool pressures of approximately 20 bar and does not require modification to existing coolant systems. Coolant delivery is integrated directly into the shrink-fit toolholder body, eliminating the need for external nozzles or additional attachments.

In moldmaking applications, where deep cavities, long-reach tools and hardened materials are common, coolant management plays an important role in process stability. Chip accumulation and localized heat buildup can negatively affect surface finish and dimensional accuracy during machining operations.

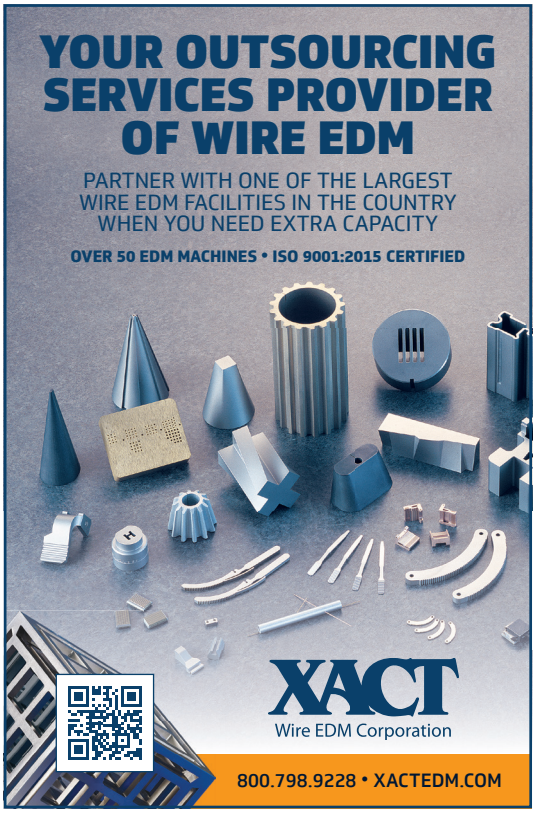


The slot configuration is designed to maintain high runout accuracy without introducing additional unbalance. The design also preserves toolholder clearance, even at high spindle speeds.

Cool-Flash is available for tools with diameters ranging from 6-50 mm, covering a broad range of finishing and roughing operations in precision machining environments.

Haimer USA | haimer.com
Booth 431510



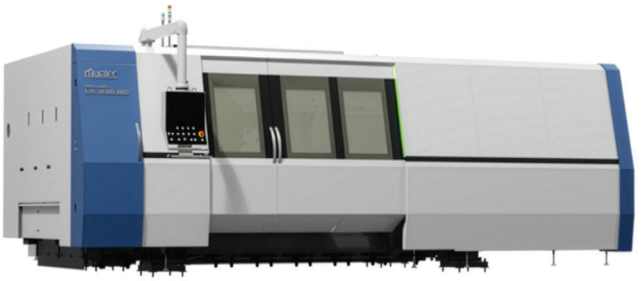




Fabrication System Provides Integrated Workflow in Single Setup

Muratec USA's LS3015MC fabrication system integrates high-speed fiber laser cutting with full machining capability in a single platform. Designed to eliminate inefficiencies in multimachine workflows, the system enables fabricators to complete cutting, drilling, tapping and finishing operations in a single setup — improving accuracy, reducing labor and accelerating throughput.

At the core of the system is an 8-kW fiber laser, paired with a rigid 4,500-rpm HSK-A50 spindle and a 20-tool automatic tool changer. This configuration supports a wide range of secondary processes including tapping, countersinking, counterboring and reaming without removing the workpiece from the machine. By maintaining a single coordinate system throughout the process, the LS3015MC is designed to eliminate re-referencing errors and promote consistent, high-precision results.



The machine is well-suited for medium- to thick-plate applications, where traditional workflows often require multiple setups and increased material handling. Its compact, all-in-one design reduces floorspace requirements while supporting automation-ready, lights-out manufacturing.

Attendees can see how the LS3015MC is said to streamline production with fewer setups, shorter lead times and improved workflow efficiency. Visitors can also explore how Muratec's minimal-lubrication technology contributes to a cleaner, safer operating environment by reducing coolant usage and maintenance demands.

Murata Machinery USA Inc. | muratec-usa.com
Booth 338844

End-to-End Metalworking Solutions Support Process Optimization

MSC Industrial Supply Co. highlights a range of metalworking products, inventory management solutions, production fasteners, hardware and on-site technical expertise.

At IMTS, MSC features real-world customer applications and live demonstrations, and has metalworking specialists available to discuss machining performance, process optimization and operational efficiency. The company supports manufacturers across the production lifecycle with tooling, supply chain solutions and technical support designed to improve productivity and reduce downtime.

Attendees can also explore MSC inventory management capabilities, including industrial vending and supply chain programs that improve tool availability, control usage and reduce waste. The booth demonstrates how MSC works alongside manufacturers to streamline operations and drive measurable performance improvements across the shop floor.



"Manufacturers of all sizes are looking for partners who understand their day-to-day challenges and can help improve performance on the shop floor," says Martina McIsaac, president and chief executive officer for MSC. "At IMTS, MSC brings expertise, services and solutions together to support everything from small shops to large manufacturing operations and helps customers achieve more value and efficiency out of their metalworking processes."

MSC Industrial Supply Co. | mscdirect.com
Booth 432228

PERMANENT PART MARKING MADE SIMPLE.

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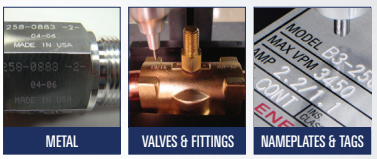
MADE IN THE USA

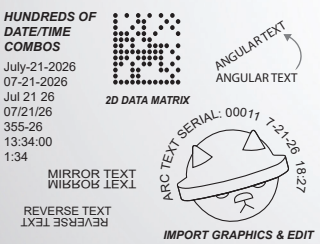
KM-64
DOT PEEN MARKER



MARK VIRTUALLY ANY MATERIAL



POWERFUL MARKING CAPABILITIES



WHY MANUFACTURERS CHOOSE THE KM-64

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KWIK MARK INC. | kwikmark.com | 815-363-8268 | info@kwikmark.com

Precision-Ground Pins Provide Mirror Finish

Punch Industry USA Inc. features its precision-ground rounds and small-diameter mold and die components. Using innovative grinding equipment, Punch Industry is capable of making round steel and carbide components with diameters as small as 0.025-1.0 mm (0.0001-0.04"), depending upon the length and shape of the pin or punch. In addition to rounds, Punch Industry can process square, triangular or unusual shapes. Whether steel or carbide, a mirror finish is achievable on ground pins without polishing.

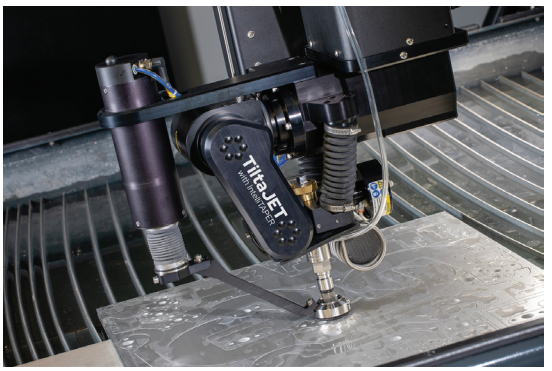
Custom small-diameter components the company has produced include ferrule pins, micropins and punches for electronics and medical micromolds, as well as factory automation pins and punches.

Punch Industry USA Inc. | punch-us.com
Booth 135229



Waterjet Systems Enhance Cutting Precision

Omax Corp. showcases the Maxiem 1530X JetMachining Center, which comes equipped with a software-controlled Omax VersaJet five-axis cutting head that provides a cutting range from 0-60 degrees for the production of beveled edges, angled sides and complex 3D geometries while minimizing secondary finishing. With a cutting envelope of 10' × 5' 2" (3.045 × 1.57 m) the system delivers ±0.003" linear positional accuracy and ±0.001" repeatability for precision cutting across a wide range of materials including metal, composites, glass and stone. The system is configured with a variable frequency drive for high-performance motor control that reduces energy consumption and maintenance. Under-bridge lighting is an optional feature.



The Maxiem 1530X includes a hopper engineered to contain abrasive material to prevent external spillage. The hopper design provides advanced incoming abrasive filtering and is compatible with an optional abrasive clog detection system that automatically pauses the machine when a clog is detected. With the clog detection system, operators can immediately restore flow and keep the machine running.

The OptiMax 60X JetMachining Center is also showcased through continuous cutting demonstrations. With a cutting envelope of 10' × 5' 2" (3.04 × 1.57 m) the OptiMax 60X comes standard with the exclusive IntelliTrax linear drive system that provides 350 in/min (8.9 m/min) traverse with real-time, closed-loop positioning feedback at the one micron level and is backed by the IntelliMax premium software suite. IntelliMax is designed to be an intuitive CAD/CAM system that quickly converts designs into machined parts. The machine also features a TiltaJet taper-eliminating abrasive jet cutting head that dynamically tilts the nozzle during cutting to minimize taper and jet stream lag. This enables tighter tolerances without taper, improved edge quality and more accurate finished parts.

Attendees also see the MicroMax Precision JetMachining Center that provides ultra-precision abrasive waterjet machining with ±0.0001" (±2.5 micron) linear position accuracy making it well-suited for electronics and wire EDM processes. A TiltaJet taper-eliminating abrasive jet cutting head and Omax 7/15 Mini MaxJet five Nozzle enables finer precision cutting capability with a 0.007" orifice and a 0.015" mixing tube combination. Accuracy is further enhanced by the machine's stiff construction and vibration isolation of the cutting table and gantries.

For prototyping and low-volume production, Omax features its compact, economical ProtoMax portable cutting system. With the versatility of larger abrasive waterjets, the ProtoMax provides a 12" × 12" (304 × 304 mm) cutting envelope for materials up to 1" (25 mm) thick. The 5-hp (3.7-kW) direct drive pump delivers a cutting pressure of 30,000 psi (2,068 bar). ProtoMax is small enough to fit through a standard doorway and comes with everything necessary to start cutting.

Omax Corp. | omax.com | Booth 135020

Rotary Transfer Machine Supports Greater Part Diversity

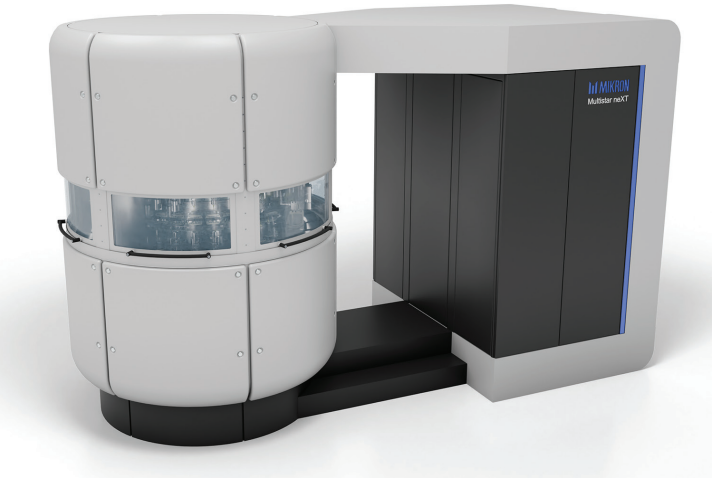
Mikron Corp.'s Multistar Next rotary transfer machine is engineered to deliver higher volumes, tighter tolerances and greater product diversity while lowering cost per piece.

Key features include a flexible and modular design with full CNC control across 8 to 24 stations, output up to 50 pieces per minute in a single cycle, powerful working units for unlimited machine capability, multiple clamping solutions for different workpiece types, a compact footprint and digital solutions with integrated energy-saving features.

Maximum part size is 14-mm diameter × 75-mm long for cylindrical parts and 30 × 30 × 30 mm for square parts.

For decades, mechanically driven rotary transfer machines have dominated high-volume connector production. As connector portfolios expanded and batch sizes fragmented, purely mechanical solutions reach their limits, the company says. The Mikron Multistar Next provides full CNC control on every station and on the rotary table while maintaining transfer machine throughput.

Mikron Corp. | mikron.com | Booths 339919, 431580



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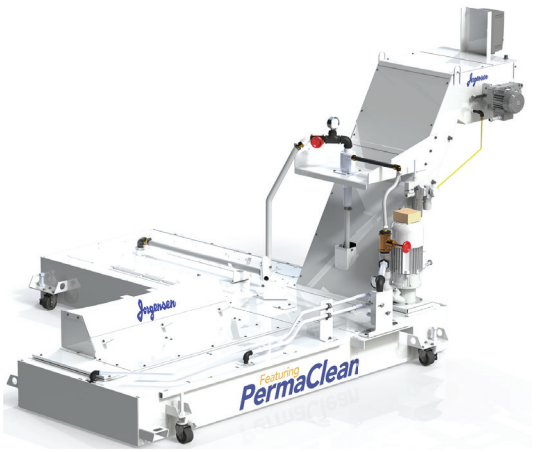
Coolant Systems Improve Filtration, Reduce Maintenance

Jorgensen Conveyor and Filtration Solutions highlights its expanded FlexFiltration coolant management systems designed to extend coolant life, improve part finishes and reduce maintenance procedures and costs. The company features two complete, fully automated systems that showcase compact modular designs with advanced customization for integration versatility in coolant filtration and monitoring.

Designed to fit on a high-speed five-axis CNC machine tool, the first system features a conveyor with an integrated coolant tank. In this setup, an integrated FlexFiltration tank maintains coolant clarity down to or below 10 microns with a chip conveyor, filter media and accessories. The customizable system also features Jorgensen's PermaClean advanced filtration to eliminate sludge buildup in the coolant tank. PermaClean's consumables-free design, paired with multistage cyclonic filtration, eliminates non-cut time for tank maintenance.



This setup highlights the versatility of Jorgensen's compact, modular solutions for high-speed machining. A Jorgensen Ecofilter 80 conveyor handles primary chip separation at 80 microns with more than 97% efficiency. PermaClean eductor nozzles maintain coolant movement to suspend fines and prevent settling as coolant moves through a cyclonic filter and into the system's main tank. Maintenance-free secondary filtration within a Flex C Series cyclonic filter supports unattended machining. Depending on material type and coolant flow, users can choose to operate with either gravity or bag filtration. Once cleaned to 10-micron clarity, coolant proceeds into an ultra-clean tank before delivery back to the machine tool.

The system fits compactly under or next to a machine tool. High-pressure coolant options, including Jorgensen's advanced Flexforce through-spindle coolant system, address the cutting zone directly to break the heat-generated vapor barrier between cutting tool and workpiece for precision cuts with faster feeds and speeds.

Attendees will see a gravity media coolant system designed for a grinding application. This system integrates FlexFiltration's Flex G line of gravity media with a Jorgensen Mag-Drag magnetic drag conveyor for ferrous-metal chip removal.

| Jorgensen Conveyor and Filtration Solutions
jorgensenconveyors.com | Booth 338009

Wire EDM Provides Micron-Level Accuracy for High-Precision Applications

Sodick's AX350L wire EDM is an oil-based system engineered for extreme micromachining, reliability and long-term performance.

Designed for ultra-fine machining applications, the AX350L uses dielectric oil to create a small discharge gap, enabling optimal surface finishes and micron-level accuracy. Paired with Sodick's iGroove+ wire rotation technology, which is said to improve surface quality while reducing wire consumption by up to 30%, the AX350L can provide optimal surface roughness with lowered operating costs.



At the core of the AX350L is Sodick's custom rigid linear motors, providing high-speed, backlash-free motion with zero mechanical contact. This promotes consistent accuracy and repeatability over time.

| Sodick Inc. | sodick.com | Booth 338640

Horizontal Fast-Wire EDM Complements Large LPBF 3D Printers

EDM Network Inc. showcases its latest horizontal fast wire EDM designed to complement large laser powder bed fusion (LPBF) 3D printers. The machine accommodates build plates from 800 × 400 mm to 650 × 1,000 mm and up to 1,250 mm tall.

The horizontal design is said to provide several advantages over vertical wire EDMs. Operators can load parts easily using overhead hoists or forklifts. No additional tooling is required to support the build plate and printed parts. There is no need to align the mounting fixture to the axis travel. Setup is designed to be fast: Users load the part on the rails, align the wire to the top of the build plate and begin cutting.

The process uses submerged cutting that covers only the wire area rather than the entire workpiece. The design prevents catching of heavy workpieces or test coupons and avoids parts falling into each other. Wire life typically reaches 80 to 100 hours when cutting thick Inconel, titanium, cobalt chrome, stainless steel and other electrically conductive materials.

The horizontal fast wire EDM complements the company's complete line of vertical fast wire EDMs, including the Taiwan-built Chmer DEC series developed for the 3D metal printing industry. The line covers build plates from 400 × 400 mm to 1,600 × 1,600 mm in both horizontal and vertical configurations.

EDM Network Inc. | edmnetwork.com | Booth 338360



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Booth 339089

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Waterjet System Provides Automated Abrasive Recycling

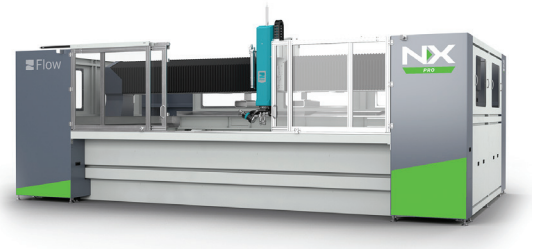
Flow's NX Pro waterjet is engineered for efficiency, uptime and versatility. The NX Pro is said to be the first waterjet system to feature fully automated abrasive recycling, cutting abrasive use and disposal by up to 50%, according to the company. Combined with an enclosed smart containment system, the NX Pro reduces noise, contains spray and enhances operator visibility with integrated LED lighting, panoramic windows and sliding doors.

The NX Pro features Flow's pump technology, providing up to 94,000 psi with a variable-frequency drive. Extended-life components and smart diagnostics minimize service intervals and maximize uptime. The intuitive FlowXpert Software Suite streamlines everything from design to cut, with 3D CAD/CAM, automatic path optimization and system status alerts.

FlowXpert now features FlowCut NX, Flow's re-engineered control software. Built on a modern architecture, FlowCut NX provides a user-friendly, intuitive interface that is designed to make programming and operation seamless. With optimized user workflow, improved cut displays and system event tracker, FlowCut NX can enable operators to achieve accurate results faster, with less waste and fewer errors.

Built to handle virtually any material and shape, the NX Pro offers multiple work envelope sizes and pairs with various Flow cutting head solutions, including Dynamic Waterjet XD for 3D accuracy and speed. The NX Pro is backed by FlowCare service and support.

| Flow International | flowcorp.com | Booth 135002



AM Production System Connects Additive Processes for Improved Repeatability

Axtra3D Workflow connects build setup, printing, post-processing, inspection and data-driven traceability into a single production solution. The system improves repeatability, throughput and qualification readiness for industrial, dental, aerospace and tooling manufacturers by synchronizing the entire additive manufacturing flow from start to finish.

Axtra Workflow is a fully connected, validated process that ties together build setup, Hybrid PhotoSynthesis printing, automated wash and dry, UV and thermal cure, and per-layer analytics. The workflow reduces variation by optimizing each stage holistically and provides traceable production records.

AxtraWash and AxtraCure handle the postprocessing steps. Each machine operates within the Axtra Workflow ecosystem while supporting interoperability with other OEM systems where appropriate. AxtraWash is a fully automated wash and dry station that supports up to three cleaning agents across multiple tanks. It imports validated material-specific wash and dry profiles from the software and printer to reduce manual guesswork. AxtraCure is a combined UV and thermal curing system that consolidates post-cure and heat treatment in a single device. The UV chamber provides three independently controlled wavelength bands at 355, 385 and 405 nm with dual photosensor verification and up to 250°C thermal cycles.



Axtra Insight provides real-time process visibility and analytics by aggregating data from more than 155 onboard and peripheral sensors across the entire workflow. It delivers layer-level process monitoring, predictive maintenance, MES integration, fleet reporting and complete job history exports for quality systems. The platform correlates TruLayer and HPS sensor data for auditable production outcomes.

The LumiaX1 3D Printer has been upgraded with enhanced TruLayer hardware, advanced linear sensing, refined encoder and gantry control, automatic Z recalibration and a HMI that exposes live sensor matrices for real-time visibility.

| Axtra3D | axtra3d.com | Booth 338374

Dot Peen Marker Enables Portable Marking

Rocklin Manufacturing's handheld Flymarker Mini 85/45 plus is a portable, battery-operated dot peen marker with a marking area of 85 × 45 mm and a weight of less than 7 lbs.

The Flymarker Mini's marking force can be adjusted directly on the unit to accommodate materials ranging from plastics to aluminum to hardened steel up to 63 HRC. The unit can also be equipped with a strong magnet for deeper markings and visibility after various metal treatments.

In addition to marking characters and numbers, options include company logos, test symbols or data matrix codes. Due to its automatic height compensation feature up to 5 mm in variability, the marker provides a constant marking result on round or uneven surfaces, the company says. Marking files can be typed in easily through the dirt-resistant keyboard on the all-in-one unit, with internal memory storage for several hundred marking files. Alternatively, files can be transferred via the embedded USB interfaces.

The high-quality linear guides moving in X and Y directions provide constant marking depth throughout the marking area.

Each Flymarker Mini comes with two lithium-ion batteries which enable full mobility and constant marking without interruption. The handheld, wireless design eliminates tripping hazards as well as safety issues that can occur during manual marking processes.

Rocklin Manufacturing Co.
rocklinmanufacturingco.com | Booth 236400





Waterjet System Provides Efficient Cutting of Complex Parts

Flex Machine Tools showcases its FlexJet Flx-1365 waterjet system with its IGEMS Tilter five-axis cutting head, designed to provide optimized precision, versatility and efficiency for complex cutting applications. The system features the IGEMS CNC control, CAD/CAM software and integrated hardware solutions to provide advanced cutting capabilities for a range of materials and applications.

Featured capabilities include the IGEMS Tilter cutting head for complex bevel and 3D cutting applications, camera positioning technology for improved setup precision, kinematic compensation and perpendicular angle correction for optimized edge quality and dimensional accuracy.

The machine is also equipped with an HMI and Beckhoff industrial PC hardware, designed to provide intuitive machine operation, robust performance and improved operational control. Together, these technologies provide users with a capable waterjet cutting solution designed to improve throughput, reduce setup times and maximize productivity.

In addition to the waterjet system, Flex Machine Tools demonstrates several of its ergonomic arm solutions designed to improve productivity, precision and operator comfort in fabrication and assembly environments.

Among the highlights is the GH-45 hydraulic tapping arm, engineered for large tapping applications requiring high torque and precise control. The GH-45 is designed to reduce operator fatigue while improving consistency and thread quality for demanding operations.

Flex Machine Tools also showcases the REM-24D electric tapping arm, a versatile solution that allows users to quickly switch between vertical and horizontal tapping positions. Known for producing accurate tapped holes while minimizing the risk of tap breakage, the REM-24D combines ergonomic operation with flexibility for a wide range of tapping applications.

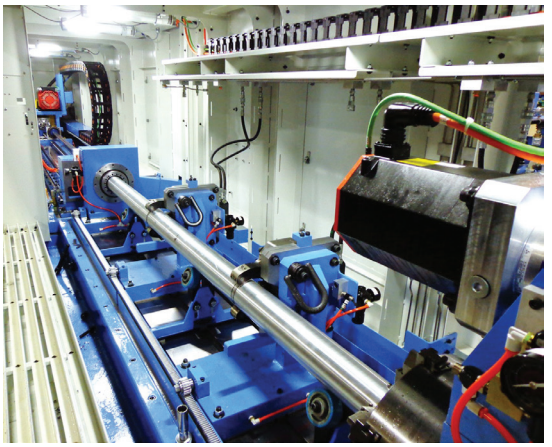
Also on display is the MAG-35-H mag drill arm, which simplifies magnetic drilling operations while improving safety and reducing operator strain. It is designed to help operators position and maneuver the tool with greater ease, accuracy and control.

Flex Machine Tools | flexmachinetools.com
Booth 135200



Gundrilling Machine Features Custom Workpiece Fixturing, Tooling

Kays Engineering showcases the DeHoff 20144 gundrilling machine used to make components for the world's largest nuclear fusion reactor, the ITER Tokamak. Fusion reactors use extreme heat to fuse atoms together and create massive amounts of energy without generating radioactive waste or carbon dioxide and greenhouse gas emissions.



The DeHoff 20144 is used to perform gundrilling, pull boring, roller burnishing and thread tapping on aluminum microwave guides — long tubes used to heat the plasma fluid inside the Tokamak vacuum chamber to 150 million ºC (the conditions required for nuclear fusion).

The machine has a gundrilling diameter capacity of 2" (50.8 mm) and a maximum drilling depth of 144" (3,658 mm). It features custom workpiece fixturing and tooling to perform gundrilling, pull boring, roller burnishing and thread tapping operations on a single machine.

Kays Engineering Inc. | kays-dehoff.com
Booth 339463

Laser Cutting Systems Provide Sustained Power

Trumpf highlights its laser-processing capabilities with machines for 2D and 3D laser cutting, laser and arc welding as well as laser marking. The company also showcases a flat-sheet laser-cutting machine, powered by fiber lasers.

Trumpf demonstrates the TruLaser 1030 fiber, a laser-cutting machine designed to be easy to use and automate. The machine is equipped with fiber-laser technology for more sustained power, longer life, greater durability, reliability and is designed for manufacturers requiring high-speed precision 2D cutting of sheet metal.



Trumpf also displays the compact, high-precision five-axis TruLaser Cell 3000 for laser processing — laser cutting and welding — of small to medium-sized components in two or three dimensions, and for laser metal deposition projects.

The company also showcases the TruArc Weld 1000 automated arc welding system for easy, affordable high-mix, low-volume production; the versatile, compact and fully equipped TruLaser Station 7000 fiber laser welding system; and a TruMark Station 5000 for 3D laser marking.

Trumpf Inc. | trumpf.com
Booth 135010

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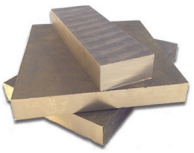

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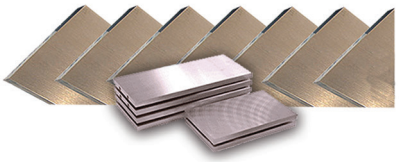

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Centrifugal Barrel Finishers Provide High-Speed Precision Finishing

Mass Finishing Inc. showcases its HZ-40 and HZ-85 centrifugal barrel-finisher tumblers for precision machining applications. These systems reduce labor costs and production times while efficiently removing surface roughness, burrs and scale to consistently generate mirror-like finishes on a wide range of machined metal components.

As high-energy finishing machines, the HZ-40 and the HZ-85 use the pressure and friction created through centrifugal force to quickly deburr, radius edges and polish part surfaces, producing uniform finishes in an operation that is quieter than vibratory tumblers. The systems achieve isotropic finishes, meaning parts are polished evenly in all directions.

For common precision-machined materials such as titanium, aluminum, Inconel, Nitinol, carbon steel, stainless steel and precious metals, the HZ-40 uses a range of finishing media — including ceramic, plastic, porcelain and natural options like corn cob and walnut shell — in various shapes and sizes to optimize finishing results. The HZ-40 is well-suited for shops producing tight-tolerance components that require consistent surface quality.



Its small footprint (4' × 3') makes it easy to integrate into machining cells and production environments without sacrificing finishing speed or results. Its compact size and multiple barrel styles provide flexibility for a wide range of industries, from medical and aerospace to general machining.

With a larger working capacity, MFI's HZ-85 centrifugal barrel-finish tumbler is well-suited for higher-volume precision machining operations requiring fast, repeatable surface finishing. The machine features four oversized barrels and provides intensified centrifugal force to accelerate deburring, polishing and radiusing while maintaining uniform finishes across complex geometries. With increased load capacity and configurable divider systems to minimize part-on-part contact, the HZ-85 supports greater throughput and reduced cycle times for batch processing of precision components.

The HZ-85 machine can also be equipped with an optional parts and media separator to demonstrate simplifying the separation process. Operators can dump fully loaded barrels directly into the separator, where the system then uses its vibrations to separate finished parts from the media used.

| Mass Finishing Inc. | massfin.com | Booth 338009

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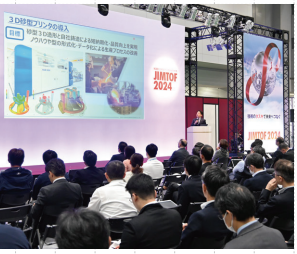






Outline

■ ***Name of Exhibition***
JIMTOF 2026
The 33rd JAPAN INTERNATIONAL MACHINE TOOL FAIR

■ ***Organizers***
Japan Machine Tool Builders' Association
Tokyo Big Sight Inc.

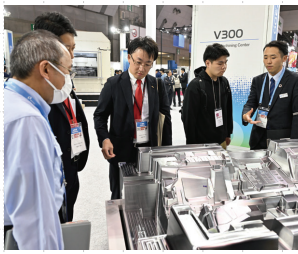
■ ***Date***
Oct.26(Mon.) - Oct.31(Sat.), 2026(6 days)

■ ***Venue***
Tokyo Big Sight (Tokyo International Exhibition Center)

■ ***Exhibits***
Machine tools (Metal cutting, Metal forming) /
Machine tool accessories / Tools for machines (Cutting tool & wear-resistant tool) / Diamond, CBN tools /
Grinding wheels and abrasives / Gears and Gear Devices /
Oil hydraulic, water hydraulic and pneumatic machinery /
Precision measuring machines and instruments /
Optical measuring instruments / Testing machinery /
Controller and related software (CAD/CAM etc.) /
Other associated machinery and equipment,
raw materials, technologies and publications







The guidance to exhibit for JIMTOF 2026 will be released on this summer.

JIMTOF 2024 Data

■ ***Booths***	5,744 booths	■ ***Number of Exhibitors***	1,268 Exhibitors(including co-exhibitors)
■ ***Indoor Exhibition Space***	118,540㎡	■ ***Visitors***	162,670(total visitors) 129,018(repeaters counted as one)
■ ***Participating Countries/Regions***	19 Countries and Regions		

Contact Information

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E-mail: jimtof@tokyo-bigsight.co.jp
TEL: +81-3-5530-1333

JIMTOF Official Website
www.jimtof.org

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HOW I MADE IT

Allison Giddens

Co-President of Win-Tech

Allison Giddens started at Win-Tech with no manufacturing background. Today, she helps run the company and advocates for small businesses in government policy development.

INTERVIEWED BY | **EVAN DORAN**

It was kind of an accident that I stumbled upon manufacturing. I was working for a big media company right out of college, and I enjoyed the time there. I had no real qualms about where my career was headed, but then I got passed up for a promotion.

So I had pet sat for Dennis Winslow, who was the owner of Win-Tech at the time. And so I called him and said, "I want to come work for you."

I sat across from Dennis and he said, "You can answer some phones and file some papers and learn a little bit here and there." And he slid a number across the table to me and it was 30% less than what I was making.

Dennis had said on his way out the door, "I know it's not what you had your heart set on money-wise, but if you trust me, I think you could run the place one day."

I ended up on the shop floor for a few weeks with three different journeyman machinists as they were creating a collet holder for the manual mill department. Because they were welcoming and willing to teach me things, I think that was part of what kept me falling in a slow love with manufacturing.

By about 2018, my now business partner, John, and I walked into Dennis' office and said, "We've got all these grand ideas and we want to institute this and that." Dennis sat back and he said, "Starting Monday, you two run the place for a year."

We make a very good team because right from the get-go, we established if anything is on the shop floor and we don't agree with it, it's John's. If it's on the office side, then I get veto power.



A lot of small businesses don't have time to go into the minutiae of CMMC. For John and I, while he's actually running the shop floor, my job is operations. My job is finance, IT. The weeds are where I'm supposed to be.

I made it a point. I thought, "This is going to set us apart." And so we started going after CMMC in 2019. By 2025, when we could sign up for an assessment, we went ahead and did it and we weren't rushed.

We've branched out with the Veterans Accountability Court. When we found that organization, it was great because there were a handful of people in the program that either manufacturing was already on their radar or it was something they were willing to learn and they already had love for country. They had all these things that, if you're going to work for an aerospace and defense shop, we already know you're sharing some of these values.

It was COVID that prompted the Advanced Manufacturing Virtual Internship, the AMVI. The whole intent was, "How do we get this in front of people that may not otherwise have the opportunity to do so?" Now it's evolved into, "How do we also show other industries what we're all about?"

I think with the future of manufacturing, we're going to figure out how to do what we need to get done, but it's going to be more efficient. I believe the future is going to be driven by wherever we figure our bottlenecks to be.

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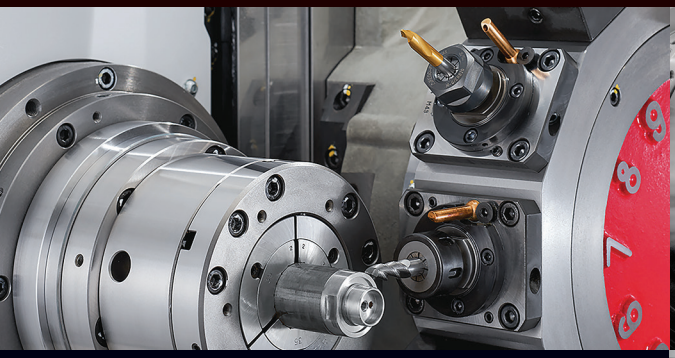

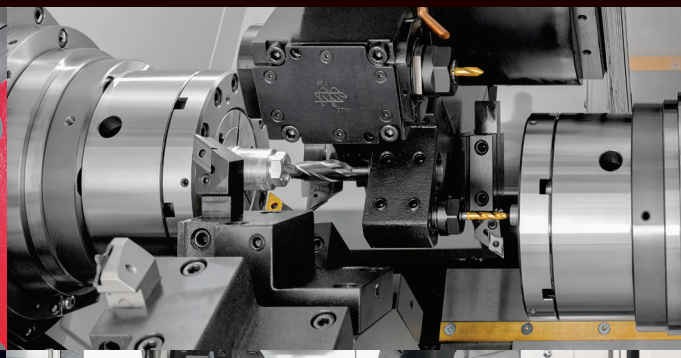

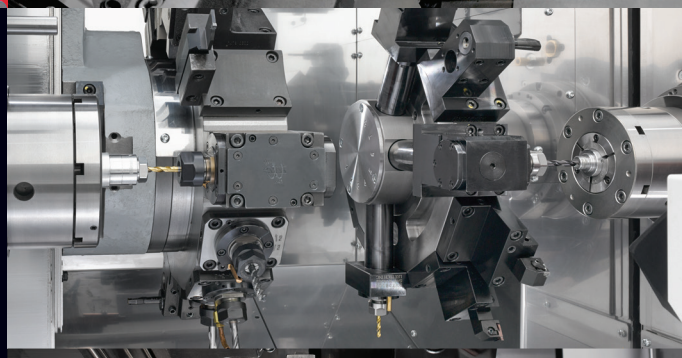

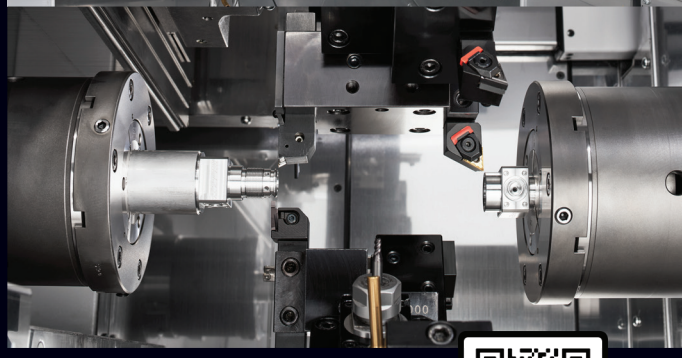

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