

# Klingelberg

NOMINATED FOR GERMAN INNOVATION AWARD 2021

Klingelberg has been nominated for the German Innovation Award 2021 with its “Done-in-One—Complete Measurement in a Single Stage” solution. The German Innovation Awards honor products and solutions that distinguish themselves from earlier solutions primarily by their user centricity and added value. The German Innovation Award are granted by the German Design Council, which was enacted into law by the German Parliament in 1953 and is funded by the Federation of German Industries (BDI).



With its “Done-in-One—Complete Measurement in a Single Stage” solution, Klingelberg will enter the “Machine and Engineering” category in the “Excellence in Business to Business” competition class. The company’s approach is to perform various measurement processes in a single stage as one complete measurement (“Done-in-One”), all in the immediate production environment. A Klingelberg Precision Measuring Center (G variant) has rapid measurement capability for dimensions, shape, contour and surface roughness in one automated cycle. By combining measurement tasks traditionally performed on up to four different devices, it is possible not only to lower investment costs, but also to decrease setup times and reduce quality costs. The integration of measuring technology into the immediate production environment, in particular, helps to increase the productivity and output of the production plants.

“We are honored to have secured a nomination for the German Innovation Award 2021 with the same award-winning solution that earned us the Best of Industry Award from *MM Maschinenmarkt* in June 2020,” remarked Martin Boelter, CTO, Klingelberg Group. “The nomination is a testament to our strong capacity for innovation. It is also evidence of our recognition in the market,” said Boelter.

The jury is made up of independent interdisciplinary experts from industry, science, institutions, and finance. The submissions are judged on the criteria of innovation, benefit to users, and economic efficiency. The winners will be announced in February 2021.

[www.klingelberg.com](http://www.klingelberg.com)

# Tyrolit

ACQUIRES BIBIELLE S.P.A.

As a leading provider of grinding and dressing tools Tyrolit already offered a comprehensive portfolio of grinding solutions for many industries. Now, with the integration of the highly specialized Bibielle assortment, Tyrolit is able to meet all grinding, polishing, finishing and surface conditioning needs, down to the most niche customer requirements.

The basic raw material fiber is produced in-house and is used in countless non-woven (fleece) applications as well as in surface conditioning materials. This keeps the supply chain compact and short and also makes for great strategic growth potential outside of traditional target industries.

A wide range of products for finishing, masking and satin finishing combined with high tear resistance provides customers with the means for the best finish wherever a perfect surface is required. This includes, but is not limited to, design objects, surgical instruments, aircraft engines and turbine components, vanes, metal parts for boats, tanks and processing tools for chemicals and food, cutlery and jewelry.



Last year the Tyrolit Power assortment was further extended with the D105 REMOVAL strips. The D105 REMOVAL strips consist of electroplated diamonds on a polyethylene backing stabilized by natural brushes. With these new rougher strips it is possible to remove more material faster and still follow the surface.

The smooth transition of Bibielle S.p.A into the Tyrolit Group ensures that no know-how is lost and resources and insights are pooled, to create an even stronger market position. Both Tyrolit and Bibielle customers will profit from the acquisition through the creation of a one-stop shop and a widened sales network.

Experts are working closely together to realize the huge potential for growth by making use of many synergies, especially in the area of research and development.

[www.tyrolit.com](http://www.tyrolit.com)

# Solar Atmospheres

## ACHIEVES NADCAP ACCREDITATION FOR LABORATORY

Solar Atmospheres of Western PA (SAWPA) successfully achieves Nadcap AC7101/4 accreditation for their captive metallography laboratory and becomes an approved Boeing Process Source (D1-4426). The accreditation will allow SAWPA to test for microhardness, surface contamination, intergranular oxidation and grain size in accordance with various aerospace specifications including many Boeing process specifications. Furthermore, the accreditation will reduce Solar's dependence on outside testing facilities and provide its customers with a single source supplier capable of meeting all testing needs internally. Along with the laboratory accreditation, SAWPA continued the 24-month merit status for Nadcap heat treating.



Plant Metallurgist Greg Scheuring states, "This is a critical step for Solar Atmospheres of Western PA. We were missing out on a significant amount of production work and R&D projects because we were not qualified to certify test results to aerospace standards. Customers require a facility that can provide a one-stop shop." Scheuring continues, "But this is really just the first phase of a broader goal. With Nadcap accreditation, SAWPA can seek out approval from specific Primes like Boeing, who consider Nadcap accreditation as a pre-requisite for their own internal qualification procedures. This accreditation will open up many new opportunities for SAWPA moving forward."

[www.solaratm.com](http://www.solaratm.com)

**NEW**  
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- Gearbox data exchange with REXS

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# Bodycote

## OPENS NEW ILLINOIS HEATTREATMENT FACILITY

Bodycote recently announced the opening of a new facility in Elgin, Illinois.

The Elgin facility upgrades the company’s capabilities and positions Bodycote as part of an ongoing strategy to provide the best possible capabilities and geographical network to better serve customers from the agricultural, mining, construction, automotive and various other manufacturing supply chains in the Upper Midwest region.



The brand new facility is now fully operational and supporting customer requirements. Bodycote continues to provide all of the processes and capabilities which were previously offered at the Melrose Park location. Additionally, the new state of the art facility in Elgin offers nitriding, Corr-I-Dur, nitrocarburizing and low pressure carburizing (LPC) solutions.

Stephen Harris, Bodycote Group chief executive, commented, “We’re very pleased to announce the opening of the new facility in Elgin, Illinois. The purpose-built facility demonstrates Bodycote’s commitment to serving the Midwest and helps us to shape the future of both our company and the industry.”

Bodycote has more than 70 facilities in North America. There will be an official opening event when COVID-19 related restrictions are lifted.

### Announces Further Expansion in North America

Bodycote is pleased to announce the opening of a new facility in Syracuse, New York.

The new Syracuse facility is the second new facility to be opened in North America in as many months, following on from the announcement of the opening of the new Elgin, Illinois facility in December 2020.



The Syracuse facility, encompassing 60,000 square feet of operating space, is now operational and offers a wide range of heat treatment processes. These include vacuum heat treating, atmospheric carburizing, low-pressure carburizing, carbonitriding, ferritic nitro carburizing, nitriding and aluminum heat treating. It is envisaged that the site will secure all major OEM approvals as well as Nadcap accreditation which it is already well on the way to achieving.

Stephen Harris, Bodycote Group chief executive, commented, “We are very pleased to announce the opening of another new facility in the USA, this time in Syracuse, New York. This investment demonstrates Bodycote’s continuing commitment to align resources to serve our customers across North America.”

There will be an official opening event when conditions allow.

[www.bodycote.com](http://www.bodycote.com)

# Universal Robots

## REACHES 50,000 COLLABORATIVE ROBOTS SOLD

Collaborative robots — or cobots — remain the fastest growing segment of industrial automation, projected to grow at a Compound Annual Growth Rate (CAGR) of 30.37% during 2020–2025. Cobot market pioneer Universal Robots (UR) solidified its frontrunner position today by selling the 50,000th UR cobot, which was purchased by a German manufacturer to enable higher productivity and better employee safety.



The 50,000th cobot came in a special delivery as Jürgen von Hollen, president of Universal Robots, personally handed over the cobot to VEMA technische Kunststoffteile GmbH and VEMA Werkzeug- und Formenbau GmbH located in Krauchenwies-Göggingen, Germany, at a ceremony held at VEMA.

“We have worked very hard in the past 15 years to develop an entirely new market segment with a mission to enable especially small- and medium sized companies to automate tasks they thought were too costly or complex,” says von Hollen, emphasizing how UR has created a new global distribution network, a new ecosystem of developers, and ultimately a completely new business model. “As a pioneer in this market, we put a lot of work into creating awareness, influencing standards, and

changing customers' perceptions influenced by their experience of traditional robots."

Von Hollen noted that VEMA GmbH is a great example of UR's mission realized: "VEMA was looking for a cost-effective, flexible, easy-to-use automation solution they could implement, program and manage on their own. They found exactly that in the UR cobot."

### **Cobots enhance both productivity and quality**

VEMA's new collaborative robot will join a fleet of three other UR cobots already deployed in pick and place tasks in end-of-line applications at the company.

Christian Veser, managing director at VEMA GmbH, is thrilled to be the recipient of the milestone cobot and explains how the cobots have enabled the company to add a third shift, now operating around the clock. "We have enhanced our productivity remarkably and also achieved better quality," he says. "Our employees are freed from ergonomically straining work to focus on quality testing. In navigating COVID-19 challenges, it has also been a great advantage that the cobots don't need to keep a safety distance or undergo quarantine. They can always work," says Veser, adding that his company appreciates the cobots so much that they gave them names.

"The first three cobots are named Elfriede, Günther and Bruno. We will name our new cobot Jürgen to honor the fact that UR's president came here in person to deliver it."

Jürgen von Hollen will be leaving UR at the end of the year after a four-year tenure at the helm of UR. "It is such a privilege to end my time at the company by marking this milestone," he says. "We have come far, but there is still an immense potential in the market both for well-known and completely new cobot applications. With our unrivaled installed base, we are constantly learning from our customers, leveraging a very data-driven approach in the development of our cobots. This is an approach I believe will help keep us leading the field in the years to come."

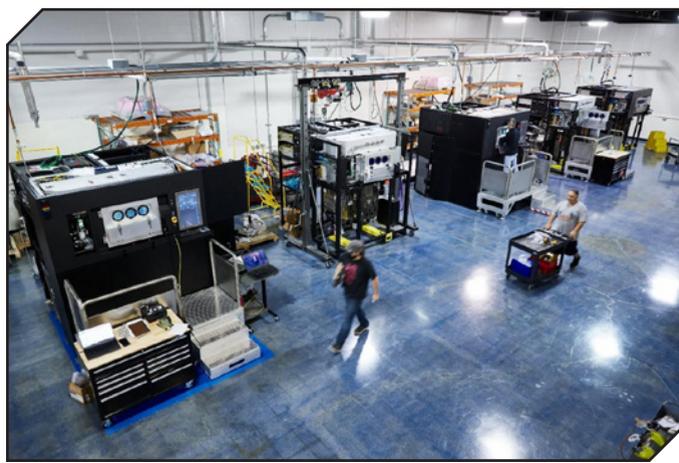
Gregory Smith, president of Teradyne's Industrial Automation Group, will step in to fill the role of UR president on January 1, 2021 until a new leader is named. "I thank Jürgen for his leadership over the past four years in growing Universal Robots from start-up status into the undisputed global leader in industrial collaborative robots," says Mark Jagiela, president and CEO of UR's parent company Teradyne. "He leaves behind a strong platform for the next level of growth with a talented workforce, an engaged ecosystem of distribution and technology partners as well as an expansive worldwide customer base."

[www.universal-robots.com](http://www.universal-robots.com)

## **VELO3D**

### **PARTNERS WITH GOENGINEER FOR SAPPHIRE 3D PRINTING SYSTEMS**

As demand for their industry-leading additive manufacturing systems grows, VELO3D has announced the formation of a U.S.-wide partnership with GoEngineer. GoEngineer will operate as an extension of VELO3D, dedicating resources to educate designers about the game changing potential of SupportFree technology for their designs, as well as sales and service expertise supporting the complete solutions portfolio including Flow pre-print software, Sapphire metal AM printer, and Assure quality assurance and control system.



GoEngineer will be VELO3D's largest partner in the United States; existing sales networks and direct purchase opportunities from VELO3D remain in place. With more than 35 years of experience and thousands of customers in high tech, medical, machine design, energy, and other industries, GoEngineer provides best-in-class design solutions including CAD, PLM, and 3D printers. The company has been the #1 global leader in sales of Stratasys polymer printers and the #1 North American leader for SOLIDWORKS for many consecutive years.

"We are pleased to partner with VELO3D to help manufacturing companies across the U.S. produce mission-critical parts for industrial use," states Ken Clayton, CEO of GoEngineer. "VELO3D delivers breakthrough SupportFree technology for the design and manufacturing of metal parts that are not hindered by geometric constraints nor compromised by part quality. Metal additive manufacturing is an important piece to GoEngineer's portfolio and we are excited to help our customers differentiate themselves even more."

"GoEngineer has gained the trust of thousands of customers with their rich expertise in additive design solutions. I see them as a strategic and invaluable partner in educating customers about the opportunity our technology brings to design and manufacturing. GoEngineer is a highly compatible national partner for VELO3D," states Benny Buller, founder and CEO of VELO3D. "Together, we will help end-users build what they want without the constraints of yesterday's standards. Design freedom, agile production, and quality assurance are requirements that VELO3D is uniquely positioned to meet."

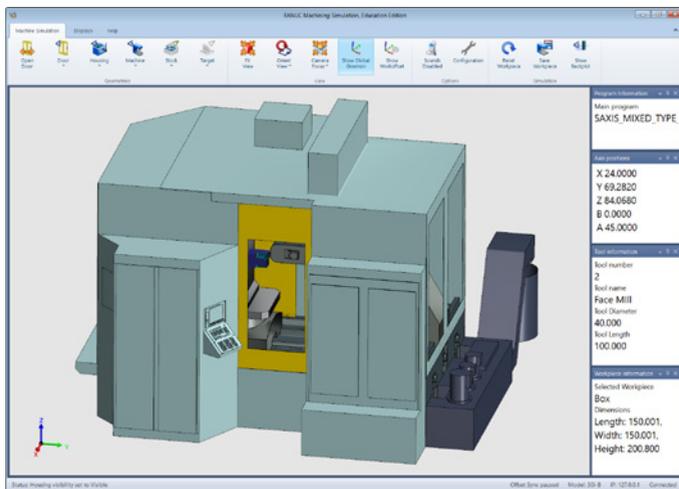
VELO3D is well-known for enabling geometric freedom through its patented SupportFree process, which reduces the consideration of support structures for complex passageways, shallow overhangs, and low angles. Coupled with their non-contact recoater, VELO3D's printing process can create the intricate cooling passageways and fuel delivery channels needed to achieve high-output fluid transmission and electrical power.

[www.velo3d.com](http://www.velo3d.com)

## FANUC

### NAMED TOP WORKPLACE IN 2020

FANUC was recently named a top work place in Michigan by the Detroit Free Press for the ninth consecutive year. FANUC ranks 15 out of 30 companies in the large employer category in Michigan. In addition, the Chicago Tribune named FANUC's Hoffman Estate, IL regional office a top work place in Illinois for the third year in a row.



"I'm so honored that even during these challenging and unprecedented times of a global pandemic we've been named a top work place," said Mike Cicco, president and CEO, FANUC America. "This recognition is based on our employees' feedback, and I'm proud they feel that FANUC is an ideal place to work."

"Our team of talented professionals is our greatest asset — integral to our company's mission and key to FANUC's competitive advantage," added Cicco.

FANUC America's Achievements in 2020 include a number of new CNC and robotics products, a new facility in Alabama, national recognition for helping close the manufacturing skills gap, and a first-ever virtual event. These accomplishments include:

- The new 30i-B Plus Series CNCs incorporate enhancements to progress high-speed and high-quality manufacturing, such as a state-of-the-art CPU, for faster and increased processing power, and include features designed to simplify 5-axis machining.

- To further develop the next-gen manufacturing workforce, FANUC America expanded its CNC training offerings to include 5-axis CNC simulation. The machining simulation for workforce development provides virtual training for controls operation and part programming.
- The Quick and Simple Startup of Robotization (QSSR) G-code feature allows FANUC CNCs to control machine tending robots that provide assistance to machine tools. This benefits those shops that are unfamiliar with robotic programming language since the robots can now be programmed using ISO standard G-code.
- A new CRX line of collaborative robots offer a variety of unique attributes that set industry standards in terms of ease of use, safety and reliability. The CRX is easy to program and teach points using Manual Guide teach programming and a new tablet interface with icon based drag-and-drop program control — no programming knowledge required.
- A major expansion to its line of high-performance SCARA robots including the SR-12iA and SR-20iA with 12 and 20 kg payloads respectively. The added robot model variations offer companies versatile and high-speed options for a variety of applications including robotic assembly, robotic dispensing, robotic pick and place, and more. These two new SCARA robot models add to FANUC's already industry-leading range of industrial robots.
- A growing customer base prompted FANUC to open a new regional office in Bessemer, AL to provide automation for aerospace, automotive OEMs, their tier suppliers, consumer products, and a wide range of other industries.
- The U.S. Department of Labor recognized FANUC America, Rockwell Automation and other industry partners for apprenticeship programs designed to help companies overcome the skills gap. FANUC's education network includes more than 1,200 high school and post-secondary FANUC-certified automation training organizations, and over 150 university and career technical training partners, providing students with nationally recognized FANUC robotics certification and CNC certification.
- FANUC held its first virtual event called "Take Control". Launched on Oct. 19–22, the event site includes three distinct zones: Knowledge, Solutions and Exploration. FANUC invites those looking to solve manufacturing problems to visit and learn how automation is helping companies achieve their goals.

[www.fanucamerica.com](http://www.fanucamerica.com)