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July 2023

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## Unison's Flagship Tube Bender for Fabtech 2023 To Go To Sharpe Products

Sharpe Products, one of North America's leading specialists in custom tube and pipe bending and tube laser cutting, has ordered the all-electric Unison Breeze CNC tube bending machine that will form the centerpiece of Unison Tube LLC's display at FABTECH in Chicago, September 11 – 14.

The machine, a 100 mm (4") single-stack model, will be on display at Unison's FABTECH Booth - # D41930 - after which it will be installed at Sharpe Products' Wisconsin-based manufacturing plant. It will be the ninth Unison Breeze tube bender that has been purchased by Sharpe Products since 2003 and will be used to provide additional capacity for bending tubular components for the company's extensive customer base.

Sharpe Products and UK-based tube bending machinery manufacturer Unison Ltd have a long and proud history of working together. Sharpe's President and CEO, Paul Krickeberg, was an early convert to the idea of all-electric tube bending and bought one of the very first British-built Unison Breeze ma-



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chines in the United States.

"This latest Unison Breeze tube bending machine will help to support our ability to offer short lead times and consistent results – attributes that are essential to our customers," says Mr. Krickeberg. "We've worked with Unison for numerous years and look forward to installing this next generation machine at our plant."

"We're absolutely delighted that Sharpe Products has chosen to purchase yet another Unison Breeze all-electric tube bending machine," says Stuart Singleton, VP of Unison Tube LLC. "As you can

imagine, such impressive repeat orders are an incredible testimony to the faith a customer places in our machine technologies, operating software and product support. The new 100 mm Breeze machine will bring valuable extra capacity to one of our longest-standing customers in the US. Equipped with the latest version of our Unibend control system, it will deliver cycle time speed improvements in the region of 25% compared to earlier versions. It also incorporates innovative new teach routines and simulation features."

UK-based Unison Ltd invented ultra-precise, all-electric tube and pipe bending, and the Breeze 100 mm (maximum tube diameter) machine is one of its flagship models. Just like all Unison Breeze tube bending machines, the 100 mm/4" Breeze offers rapid setup, fast tooling changes, exceptional power, rigid mechanical design, and all-electric control for right-first-time repeat sub-contract work, or immediately after producing a single trial part. These are all attributes that Unison Ltd believes make its Breeze models

the ultimate tube manipulation machines for businesses specializing in frequently changing, small-to-medium batch production runs.

Other single-stack Unison Breeze machines operated by Sharpe Products include 80 mm (3") and 100 mm (4") variants. Sharpe also has 76 mm (3"), 80 mm (3") and 130 mm (5") multi-stack Breeze machines – each able to accommodate several tools for rapid changeover between bending cycles.

#### *About Unison Tube LLC*

*Unison Tube LLC is the North American division of Unison Ltd, the UK's leading manufacturer of tube and pipe bending machines, offering the largest range of all-electric benders for diameters from 4 mm (5/32") to 275 mm (10"). Unison Ltd manufactured the world's first all-electric tube bender in 1994, followed by the world's first all-electric multi-stack tube bender, then the world's largest all-electric tube bender for the shipbuilding industry. Available in single-stack, multi-stack and right/left varieties, Unison machines are delivered to more than 20 countries globally. Written and supported by Unison, the company's tube bending software is widely recognized as the most user-friendly control system for tube bending machines.*

#### *About Sharpe Products*

*Sharpe Products provides custom pipe and tube bending, laser cutting and end forming - up to 6-inch OD - for commercial and industrial companies throughout North America. More information, including a complete listing of machine technology currently in use, is available at: [sharpeproducts.com](http://sharpeproducts.com)*

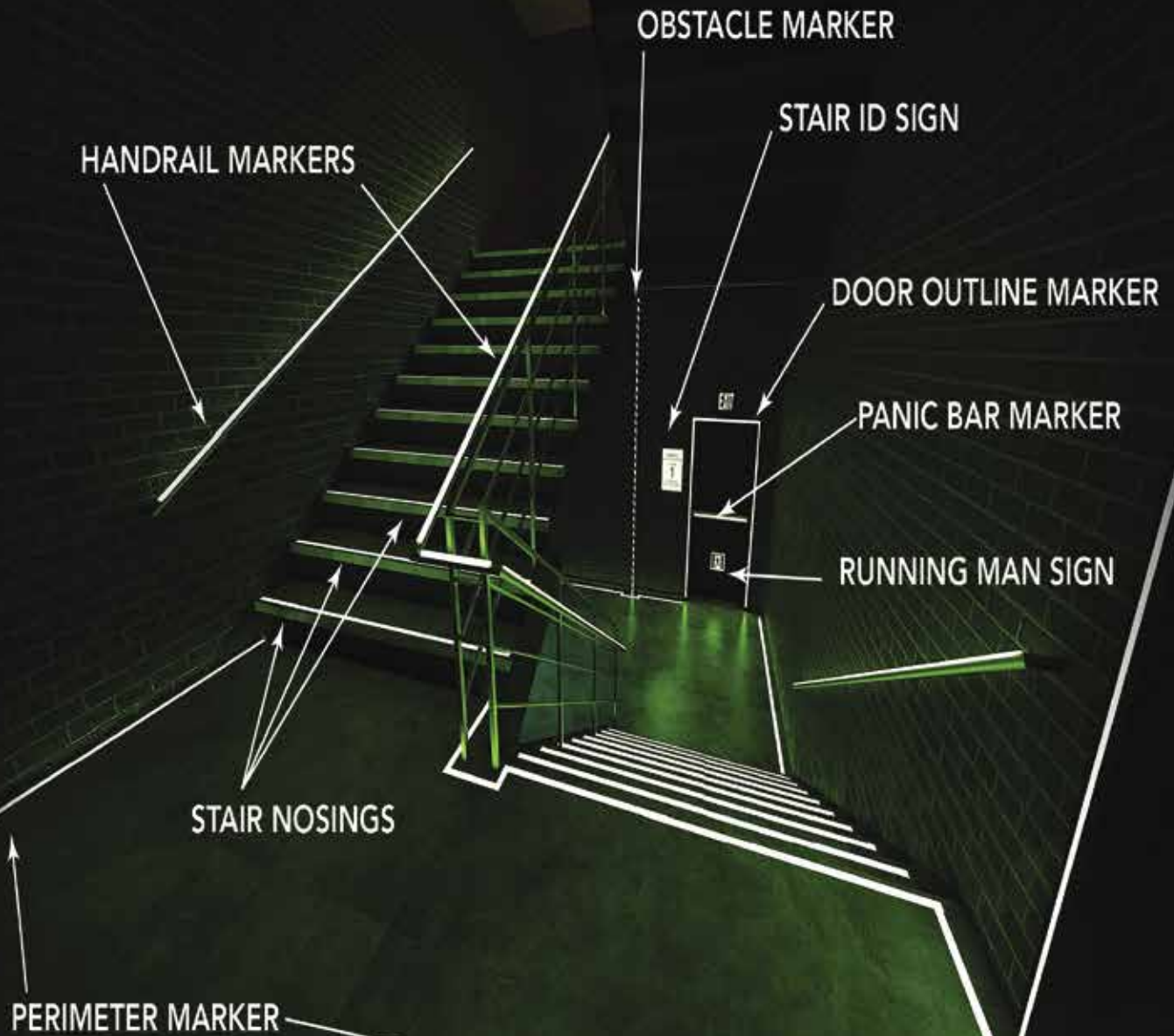
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# New Posters Details How to Safely Handle & Store Lithium-Ion Batteries

Lithium-ion batteries are prevalent in many industries and applications, but they can be dangerous without the users even realizing there is a potential problem. DENIOS-US has produced a new full-color poster that helps users to recognize and then safely handle defective lithium-ion batteries. This informative poster alerts users to the most common causes of damage to batteries and then walks them through visual checks, and olfactory tests to identify potential problems. In-device checks, and identifying issues while charging are also detailed. If damaged batteries are identified, the poster provides an action plan to deal with the problematic batteries quickly and safely. Posters also include space for users to insert emergency contact information – name/departments and telephone number. Posters and educational contents such as checklists, whitepapers, and more are available free by request at [bit.ly/li-ion-battery-poster](https://bit.ly/li-ion-battery-poster).

DENIOS-US manufactures a full line of products for the safe storage, charging, and testing of lithium-ion batteries. With 90 minutes of fire protection from both sides, they protect both employees and the plant from fire hazards associated with damaged lithium-ion batteries. Products shown on the poster include the Ion-Charge-90 a fire-safe cabinet for charging and storing batteries, and the Li-Ion Station for the safe storage of damaged or defective batteries. For additional information on DENIOS products for the storage and charging of lithium-ion batteries visit <https://bit.ly/li-ion-products>.

## *About DENIOS*

*DENIOS is the world's leading manufacturer and supplier of products and services for occupational environmental protection and workplace safety. For nearly four decades they have been supplying legally compliant products, solutions, and custom services for handling hazardous substances. They serve North American customers from a 100,000-square-foot facility in Louisville, Kentucky which houses engineering, manufacturing, customer service, and administrative support. At this location, they manufacture everything from the original spill pallet which launched the Company, to highly engineered, fire-rated chemical storage buildings. For additional information on DENIOS US, visit [www.DENIOS-us.com](http://www.DENIOS-us.com), chat with a live representative online, or via email at [info1@DENIOS-us.com](mailto:info1@DENIOS-us.com), or call (877) 388-0187.*

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# DENIOS

ENVIRONMENTAL PROTECTION  
& WORK SAFETY

## BEWARE FIRE HAZARDS! RECOGNIZING & HANDLING DEFECTIVE LITHIUM BATTERIES.

Use the following flow chart to check whether your battery shows signs of a defect or damage. Follow the instructions for further actions to take.

### POTENTIAL CAUSES OF DAMAGE:

#### Mechanical force, e.g.

- Being dropped
- Being hit or bumped
- Being crushed

#### Exposure to moisture, e.g.

- Effects of the weather (battery or unit left outside)
- Liquids spilled on the unit
- Unit has fallen into water

#### Thermal stress, e.g. due to improper storage / loading

- In direct sunlight
- Near hot machines or machine parts
- Covered charging
- Not using an original charger
- Heat accumulation when charging in confined, closed and unventilated rooms
- Failure to comply with manufacturer's instructions, e.g. cooling times

### 1. VISUAL CHECKS

#### Are there visual signs of damage? E.G.

- Cracked, dented, deformed, or inflated housing
- Melting points in the housing

- Liquid leaking from the battery
- Bent or corroded contacts

YES

NO

### 2. SMELL TEST

#### Are noticeable odors perceptible? E.G.

- Smell of plastic
- Chemical smell
- Burning smell

**Note:** In the case of new appliances, odors may arise during the first hours and days of use. These may be caused by residual substances from the manufacturing process and not from a battery defect. If odor formation only occurs during charging, the charger itself may also be the cause.

YES

NO

### 3. IN-DEVICE CHECKS

#### Do errors occur when the rechargeable battery is inserted into the associated electrical appliance? E.G.

- The unit shows no function despite a remaining charge
- The unit displays errors

- The unit does not recognize the battery
- The battery does not work in several devices

YES

NO

### 4. CHECKS WHEN CHARGING

#### Do malfunctions occur when the battery is connected to the charger? E.G.

- The battery does not charge
- Error message from the charger
- The charger does not recognize the battery

**Note:** Discharge the battery before connecting it to its charger. This will reduce the energy released in the event of a fire. Carry out the test in a fire-protected environment and only under supervision.

YES

NO

### NO DEFECTS DETECTABLE

The battery does not show any signs of defect. No immediate action is required.

**DENIOS practical tip:** Even a serious defect can remain undetected, which is why 100% safety cannot be guaranteed. Provide the battery with a marking (e.g. yellow dot). This indicates that the battery has the potential to be exposed to a damaging event and that caution should be exercised when handling it.

### ACTION PLAN FOR DAMAGED BATTERIES

- Switch off the device and immediately withdraw it from use. Do not use the battery anymore.
- Do not connect the battery to a charger.
- If possible, remove the battery from the unit and mask the contacts.
- Under no circumstances should you attempt to repair the unit yourself (Drilling holes, wrapping adhesive tape around the housing, etc.).
- Separate the battery / unit and store it in a quarantine box until disposal.
- Arrange professional collection and disposal of the hazardous material with a disposal specialist.

### INTERNAL EMERGENCY NUMBER:

Name/Department: \_\_\_\_\_

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#### LI-ION 2D HAZMAT STATION

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**DENIOS practical tip:** Choose a fixed location for the quarantine box, ideally outdoors. Mark the quarantine box to prevent unwanted access.

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# JLG Publishes New Accessories Resource Guide on #DirectAccess



JLG Industries, Inc., an Oshkosh company [NYSE:OSK] and a leading global manufacturer of mobile elevating work platforms (MEWPs) and telehandlers, has released its new resource guide *Accessorized on #DirectAccess* to provide customers with information about add-on JLG® accessories that can increase operators' job site productivity, provide additional safety measures and/or extend the machine's efficiency in certain applications.

"When a crew needs to get work done at height, a JLG scissor lift or boom lift equipped with the right





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accessories can be one of the most effective tools to help them get the job done,” says Nancy De-Zarn, Senior Marketing Manager - Aftermarket, JLG. “For example, some accessories are designed to conserve platform space, while others improve job site working conditions or help complete overhead work in welding, electrical, plumbing and maintenance applications.”

In this whitepaper, JLG outlines the different options for accessories available for equipment owners and operators and provides information on how to purchase these equipment add-ons. Get your free copy of the Accessorized whitepaper, available for download now, on #DirectAccess by clicking here.

For more information on JLG products and ser-

vices, please visit JLG.com.

#### *About JLG Industries, Inc.*

*JLG Industries, Inc. is a world-leading designer, manufacturer, and marketer of access equipment. The Company's diverse product portfolio includes leading brands such as JLG® aerial work platforms; JLG and SkyTrak® telehandlers and rotary telehandlers; and an array of complementary accessories that increase the versatility and efficiency of these products. JLG is an Oshkosh Corporation company [NYSE: OSK]. For more information about JLG Industries, Inc., visit [www.jlg.com](http://www.jlg.com), or find us on Twitter, Facebook, LinkedIn, Instagram and YouTube.*

#### *About Oshkosh Corporation*

*At Oshkosh (NYSE: OSK), we make innovative, mission-critical equipment to help everyday heroes*

*advance communities around the world. Headquartered in Wisconsin, Oshkosh Corporation employs approximately 15,000 team members worldwide, all united behind a common cause: to make a difference in people's lives. Oshkosh products can be found in more than 150 countries under the brands of JLG®, Hinowa, Pierce®, MAXIMETAL, Oshkosh® Defense, McNeilus®, IMT®, Jerr-Dan®, Frontline™ Communications, Oshkosh® Airport Products and Pratt Miller. For more information, visit [oshkoshcorp.com](http://oshkoshcorp.com).*

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## **EMUGE-FRANKEN Introduces New Ceramic End Mills for High-Speed Roughing, Milling of Heat Resistant Super Alloys**

Today, EMUGE-FRANKEN USA, a leading manufacturer of high-performance taps, thread mills, end mills, drills, and other rotary tools, has announced the introduction of its Cera-Cut end mills featuring a high-hardness cutting ceramic head brazed to a carbide shank for optimal vibration dampening and longer tool life compared to one-piece ceramic tools. Featuring a high-feed duplex cutting edge geometry, Cera-Cut produces high metal removal rates in challenging nickel-based alloys, resulting in machining parts 200 to 400% faster than conventional carbide end mills. Also, the tool life of Cera-Cut is up to five times higher than regular carbide end mills.

“With the growing use of heat resistant super alloys, we are pleased to offer our customers new,



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long-lasting five-flute ceramic end mills for roughing and milling in these challenging applications," said Mr. Dan Doiron, Manager, Milling Products, EMUGE-FRANKEN USA. "For example, Cera-Cut excels in the machining of complex aerospace parts."

EMUGE-FRANKEN Cera-Cut End Mills are designed for the consistent cutting of high-temperature resistant materials such as Inconel, Hastelloy, and Nimonic as well as the machining of hardened tool steels. Cera-Cut is also suitable for making interrupted cuts, and offers a tight cutting diameter tolerance ranging from -0.0008" to -0.0016" (-20 to -40 microns), depending on the tool diameter.

Cera-Cut end mills can be used for roughing or pre-finishing, and can produce 2D or 3D contours, and are suitable for face milling, slot milling, helical milling, contour milling, and pocket milling. EMUGE-FRANKEN Cera-Cut End Mills are offered in different diameters from .24 to .79 inches (6 to 20 mm). Corner radius, modular and special designs are also available.

For more information on Cera-Cut including a video and brochure, click here.

#### *About EMUGE-FRANKEN*

*For over 100 years, the German company group EMUGE-FRANKEN has been one of the world's leading manufacturers of precision tools for thread cutting, drilling, gaging, clamping, and milling. With 1,950 employees, EMUGE-FRANKEN offers an innovative product program with 40,000 in-stock items and a multiple of that with customer-specific tools. The product range focuses on applications in the automotive industry, power plants, aerospace industry and medical technology as well as general manufacturing. As a complete system supplier for the machining industry, EMUGE-FRANKEN has branch offices or sales partners in 52 countries.*

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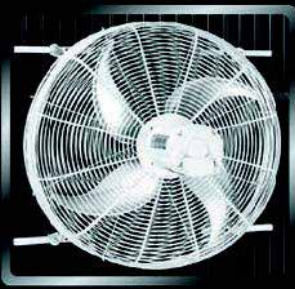


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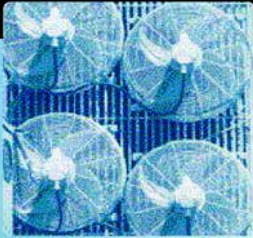
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EMUGE-FRANKEN USA is a wholly-owned subsidiary of the 1,950 employee German company EMUGE-Werk Richard Glimpel GmbH & Co. KG (Lauf, Germany). EMUGE-FRANKEN USA offers end-user technical support through a network of in-the-field engineers and in-house product specialists, all with extensive tooling and application experience. Over 10,000 types of cutting tools and accessories are stocked in the company's U.S. and Canadian Headquarters located in West Boylston, MA, U.S.A. The recently expanded 50,000+ sq. ft. facility includes a technology center with a machining and tooling demonstration showroom and classroom, tool manufacturing and coating, reconditioning, warehouse, sales, support, and administrative offices.

For more information on EMUGE-FRANKEN USA, call 800-323-3013, at 1800 Century Drive, West Boylston, MA 01583-2121, or visit [www.emuge-corp.com](http://www.emuge-corp.com) •

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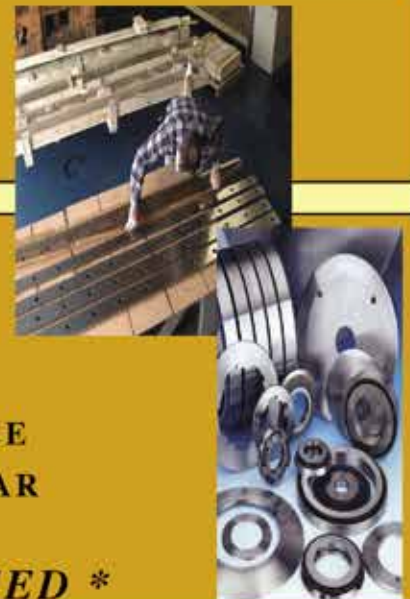
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