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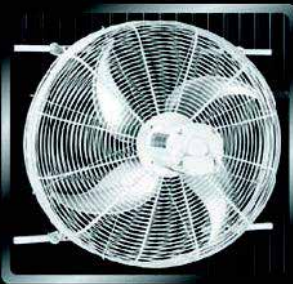
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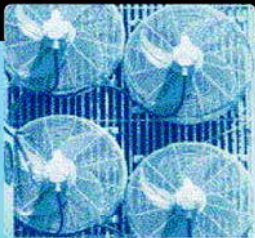
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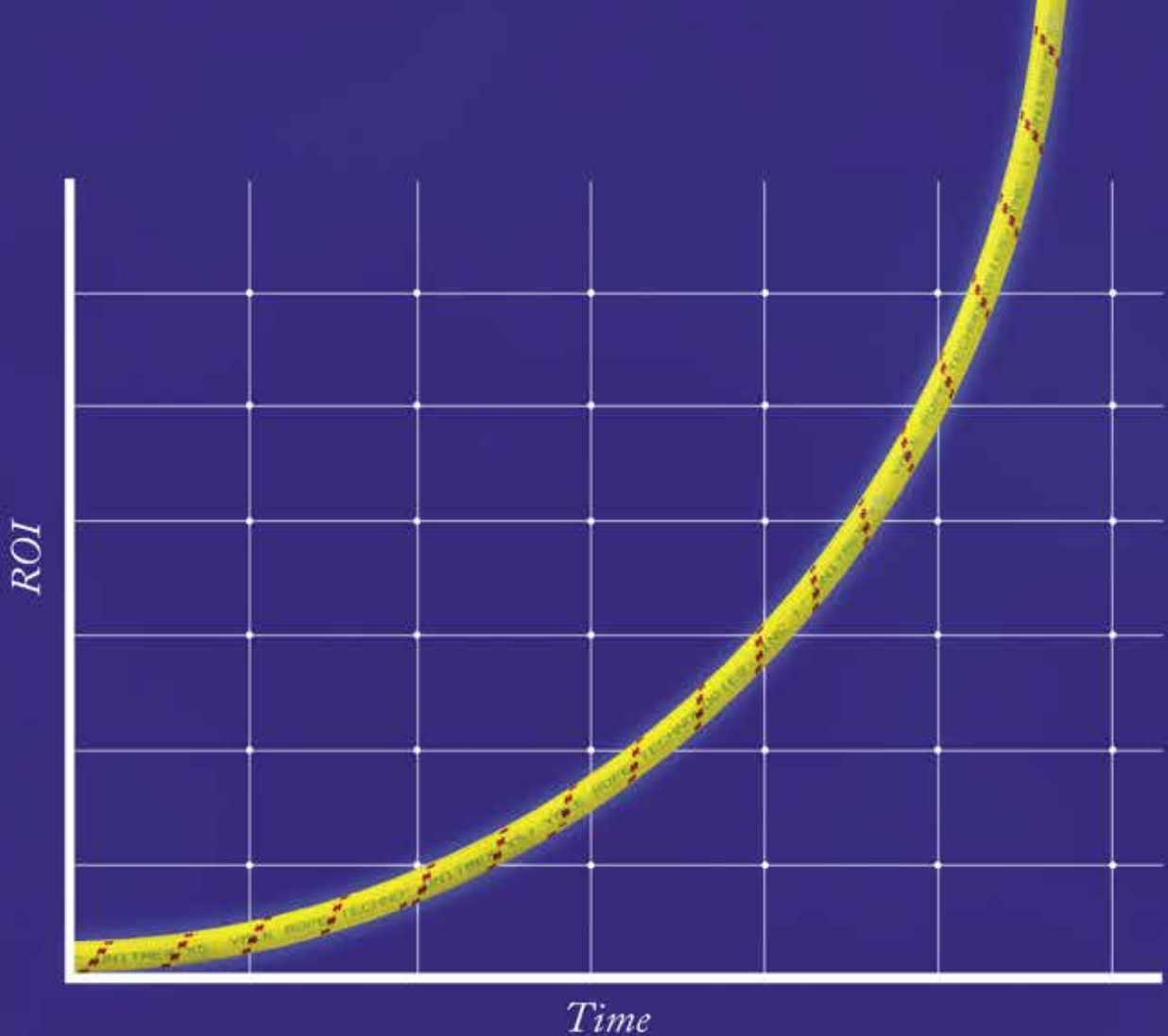
Monitoring and Control of Vacuum Processes Made Easy



In process engineering, the exact observance of pressures in vacuum-assisted processes is an important parameter for ensuring optimum efficiency and the best possible product quality. VACTEST vacuum measurement equipment from Busch is designed to combine the latest advances in vacuum measurement technology with exceptional manufacturing quality – providing an innovative and comprehensive portfolio of active vacuum gauges and controllers. This makes it possible to match the right measurement technology to each and every process.

Robust construction, reliability and measurement accuracy are key features of these devices, making them the ideal choice to monitor and control your vacuum process, whether it is in industry or research. These state-of-the-art technologies allow a wide measurement range from 1600 to $5 \cdot 10^{-10}$ millibar covering all vacuum levels with accuracy. All sensors comply with international standards and regulations such as CE and RoHS.

A number of different sensor technologies in the VACTEST series cover the entire range between rough vacuum and ultra-high vacuum. They can basically be divided into two main categories: direct and indi-



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rect pressure measurement. The direct measurement principle is independent of the process gas and is based on the pressure that the molecule flow exerts on a membrane. This method is mainly used for rough and medium vacuum processes. At a higher vacuum level, indirect measurement principles are used, based on special properties of the process gas, such as thermal conductivity or ionization probability. Unlike the direct measurement method, these principles depend on the type of process gas. For this reason, a specific correction factor must be applied for each process gas – except for air and nitrogen.

A number of factors must be taken into account when selecting the correct sensor. In addition to the process and ambient conditions, the pressure range, required accuracy and gas composition play a key role in achieving optimum measurement results. With three product lines available, Busch VACTEST meets accuracy, measurement range and functional requirements of every vacuum system or process.

VACTEST digital transmitters are high-end gauges coming with a full range of options as standard. Their intelligent micro-controller architecture allows an optimum sensor control, as well as many setting options, making them the ideal solution for a variety of applications. VACTEST digital transmitters are based on Pirani sensor technology or on combinations of Pirani / cold cathode or Pirani / hot cathode technologies.

VACTEST analog transmitters feature a compact,

rugged and functional design. Thanks to their excellent measurement accuracy and stability, these transmitters are ideal for centralized monitoring and control systems.

VACTEST mobile gauges are the perfect hand-held solution for quality assurance with vacuum processes and maintenance. These battery-operated gauges offer various functions, such as a USB interface for data export and display, as well as a data logger. They can even be used under vacuum. For example, these gauges can be sealed in vacuum packaging to measure the pressure within the packaging.

VACTEST active sensor controllers, which are compact control units designed for the simultaneous operation of several vacuum gauges, round off the product series. Used either as a table-top device or rack-mounted, they allow intuitive menu navigation and ensure full control of each transmitter. Parameters, such as gas type correction factor, pressure units, setpoints and other beneficial functions are easily adjustable.

In addition to the measuring devices, the VACTEST Viewer is also available. It is a free Bluetooth monitoring application for mobile devices with an Android operating system. It can be used to display the pressure values of up to 16 connected sensors. The tool was designed for Bluetooth data exchange between software and sensors and is ideally suited for maintenance and calibration purposes. Visual and sound alarms can be preset for maximum and minimum pressure values. •

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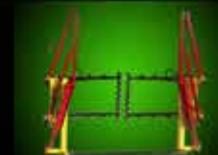
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NO LONGER A PIPE DREAM: UNISON BRINGS AFFORDABLE, ULTRA-PRECISE PIPE BENDING TO MORSE HYDRAULICS



Unison Tube LLC of Danville, VA has assisted Morse Hydraulics, a leading US-based provider of high-pressure hydraulic hoses and fittings, in removing its reliance on external suppliers for the bending of specialist pipe fittings and, in doing so, also reducing the volume of bent components it holds in stock.

With a mission to ‘Always provide the right solutions with world-class products’, Morse Hydraulics required a pipe bending machine that would offer uncompromising levels of accuracy and repeatability, yet would be well suited to a manufacturing environment specializing in both one-off and small batch runs.

“Our goal was two-fold,” says Richie Damian, owner at Morse Hydraulics. “First and foremost, we wanted to carry out pipe bending in house, to enable us to respond even more quickly to the varied needs of our customers. Secondly, as a knock-on benefit, we also wanted to reduce the significant levels of bent pipe fittings that outsourced production meant we were having to hold in stock.



“Until we met with the team at Unison Tube, our search for the right pipe bending machine was proving challenging,” he continues. “Many of the lower-priced machines we saw simply didn’t offer the levels of accuracy we were looking for, whereas other fully automated CNC machines were either prohibitively expensive or offered capabilities we would never use.”

Listening to Morse Hydraulics’ pipe bending requirements prompted Stuart Singleton, VP at Unison Tube LLC to recommend one of Unison’s EvBend 2000 power-assisted CNC machines. Recently introduced by Unison to assist precision manufacturing companies that require low-volume, high- accuracy tube and pipe production and prototyping, EvBend machines are CNC-controlled, manually operated 3-axis models that offer precise multi-plane bending at much lower cost than many fully automated CNC benders.

“Since the Unison EvBend 2000 was installed at our facility in Portland, Oregon, we have completely removed our reliance on outsourced pipe bending and have been able to significantly reduce our stockhold-

ing,” adds Richie Damian. “With bending on site, we are better placed to deliver the high-quality hydraulic tube fittings our customers demand, as well as custom bend even the most hard-to-find fittings and connectors. Unison’s thorough training ensured we were producing saleable bent components from day one, plus they are never more than a phone call away should we need them for guidance.”

As an indication of the levels of accuracy they offer, Unison EvBend machines are widely used across aerospace, Formula One and the oil & gas industry. The EvBend 1000 machine will precision bend tube and pipe of up to 16 mm OD, while the bigger EvBend 2000 machine, as purchased by Morse Hydraulics, will precision bend tube and pipe of up to 50 mm OD.

“It was a pleasure to assist Richie and the team at Morse Hydraulics in finding the right CNC pipe bending machine to meet their needs,” comments Stuart Singleton, of Unison Tube LLC. “Although Unison is perhaps best known for all-electric tube and pipe bending technologies, assisting Morse Hydraulics provided the perfect opportunity to showcase our range of ultra-precise manual machines, which are well suited to organizations bending small numbers of highly specialized parts.”

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” schedule pipe). With a reputation for building highly powerful, highly robust machines that deliver uncompromising levels of accuracy and repeatability, Unison Ltd continually innovates the tube and pipe bending marketplace. The company 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.

Unison’s tube bending software is recognised as the most user-friendly control system for tube bending machines. The software is written and supported by Unison, ensuring complete control of its evolution, with no need for third party support. www.unisonltd.com

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About Morse Hydraulics
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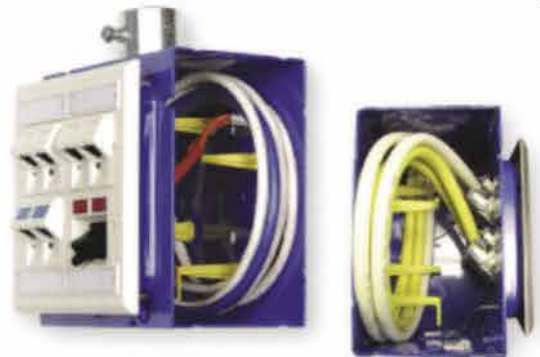
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K-Tec & Ashland Acquire Metalcraft Scrapers



K-Tec Earthmovers and Ashland Industries, market leaders in pull-pan scraper earthmoving products, announced the acquisition of Metalcraft of GA, Inc. today. Metalcraft is a heavy equipment manufacturer that is committed to providing innovative and quality products at a competitive price. This acquisition provides a facility presence in Southeastern USA along with expanded product offerings from the well-respected Metalcraft brand. The Metalcraft facility, located in Louisville, Georgia, will keep its operations under the management of founder Dayton Ratzlaff who will continue to play an important role in the growth of the Metalcraft business.

K-Tec, Ashland, and Metalcraft are all manufacturers of earthmoving scrapers and accessory products serving the construction, mining, and agriculture markets. Joined together, all three brands are part of the K.A. Group. This addition to the K.A. Group will capitalize on organizational efficiencies including: shorter ordering lead times, as production capabilities are increased; implementing industry-best practices across organizations for enhanced product design, purchasing synergies, servicing support, and company culture.

K.A. Group President & CEO, Mike Palitsky says, "Metalcraft is an impressive organization that has developed a niche in the earthmoving industry. The company has a culture of hardworking and humble experts that mesh seamlessly with our family values in our existing Canadian and Wisconsin locations. They have a proven track record of bringing innovative solutions to the market that perfectly comple-

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ment the breadth of our existing earthmoving product line offerings to the construction, mining, and agriculture markets. I want to reassure Metalcraft dealers and customers that we are committed to retaining the Metalcraft brand and existing product offerings.”

Metalcraft founder, Dayton Ratzlaff, says “We are excited to join the K.A. Group family in this next chapter of Metalcraft’s story. We see great advantages for our operations to build machines faster to match the high-demand for our products. I look forward to accessing this new corporate horsepower to allow our Georgia team to focus on our manufacturing strengths and continue building our innovative equipment at exceptional value for earthmovers around the world.”

K.A. Group ownership, Kinperium Industries Inc. will continue to invest in the new Georgia business location and will actively support management’s focus on new product development and increased operational efficiencies across the organization.

For more information please visit kagroup.com
ktec.com • ashlandind.com • metalcraftscrapers.com

About Metalcraft of Georgia Inc.

Metalcraft was founded in 2004 and has developed into a proven leader in large capacity, precision land leveling and fine grading equipment manufacturing. Founder, Dayton Ratzlaff, has been actively involved in manufacturing and earthmoving for more than 25 years. His background in maintenance management for a large mining company helped him realize that the industry needed a more rugged and higher quality earth mover than what was being offered in the market. Metalcraft has a 26,000 sq. ft. facility located near Louisville, Ga. Metalcraft is committed to providing innovative and quality products at a

competitive price and strives to build lasting relationships with customers, dealers, and suppliers.

About K.A. Group

K.A. Group is comprised of industry leading earthmoving equipment brands: K-Tec & Ashland. Founded in 2000, K-Tec provides its customers with high quality scraper equipment and earthmoving accessories for purchase through their authorized dealers around the globe. K-Tec offerings include Direct Mount, Train, and ADT scrapers ranging from 28 to 63 cu.yds, and other earthmoving accessories to provide an efficient solution to various heavy construction and mining operations. K-Tec merged companies with Ashland in March 2020 to become the market leading scraper manufacturer in the world.

Ashland Industries was established in 1953, and produces advanced dolly wheel, direct mount, and dump-style scrapers ranging from 3.25 to 34 cu.yds for the compact, agriculture, and industrial construction markets.

K-Tec and Ashland also offer a variety of earthmoving implements consisting of Land Levelers, Construction Disc Harrows, and other support equipment.

About Kinperium Industries

KA Group is owned by Kinperium Industries Inc. Kinperium is a family office that invests in long-term sustainable businesses with strong management teams and potential for growth. Kinperium provides patient financial and intellectual capital to support portfolio companies with market-leading brands, potential for industry consolidation, or synergies with existing investments. Existing Kinperium investments include KA Group, Blue Giant Equipment Corporation, Blue Giant Lifts LLC (formerly Verti-Lift Inc), and United Rotary Brush Corporation. www.kinperium.com

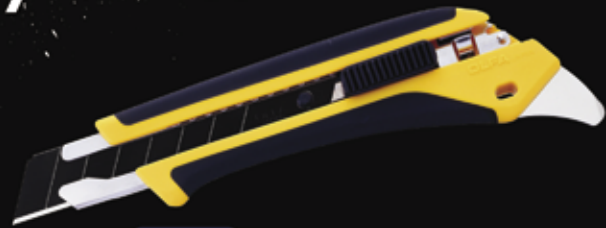
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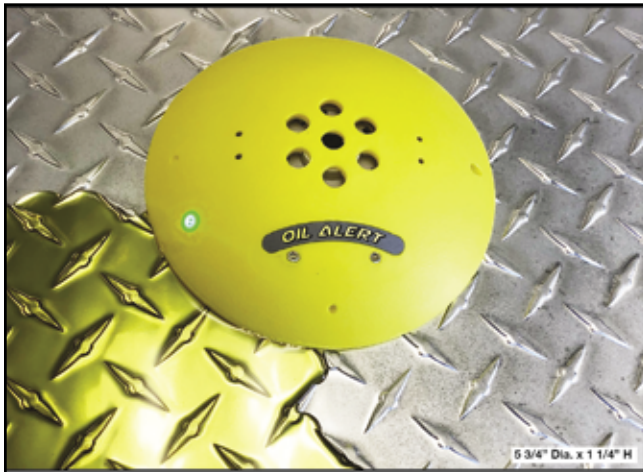


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Hypertherm Announces Release of ProNest 2023 CAD/CAM Nesting Software

Hypertherm, a U.S. based manufacturer of industrial cutting systems and software, today announced a major version update to ProNest® 2023, its advanced CAD/CAM nesting software for automated cutting. This new release contains a collection of new features and on-going enhancements designed to help customers improve their operational efficiency while reducing non-value-added tasks.

ProNest 2023 includes full functionality for PlateSaver™, a SureCut™ technology that combines the arc stability of X-Definition® plasma with specialized software parameters to dramatically increase material utilization when cutting mild steel. In addition, it contains enhancements to ProNest's Production Manager, a web-based module that seamlessly integrates with Hypertherm's EDGE Connect® CNC to automatically capture real-time machine data. Enhancements include the ability to edit production times for completed nests, set job status changes, and search for nests by customer. There is also a feature that merges XPR setups. The software will now automatically detect and merge changes made to the process parameters or bevel spreadsheets into a new setup during installation. Customers can choose to use their existing customizations or the latest factory cut charts.

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Finally, the software is even easier to use. Changes to the user interface include a new welcome screen and customizable ribbon. The welcome screen contains an informative dashboard that highlights training videos, application tips, and other valuable resources while the ribbon allows users to add, remove and rearrange tabs. Customers can save different ribbon configurations and easily switch between them as needed, to best fit their workflow.

"Our software developers have really focused on reducing the waste inherent in most cutting operations. Features like PlateSaver do this by maximizing the number of parts on a plate so customers have to buy fewer plates and waste less metal," said Tom Stillwell, Product Marketing Manager for Hypertherm CAD/CAM software products. "At the same time, the internet of things has allowed us to make great strides in manufacturing automation. Data that we've never had before is now easily at our fingertips. Tools like our Production Manager module will help customers look at their operations more holistically, providing insight to help them work smarter, faster, and more profitably."

Hypertherm designs and manufactures industrial cutting products for use in a variety of industries such as shipbuilding, manufacturing, and automotive repair. Its product line includes cutting systems, in addition to CNC motion and height controls, CAM nesting software, robotic software and consumables. Hypertherm systems are trusted for performance and reliability that result in increased productivity and profitability for hundreds of thousands of businesses. The New Hampshire based company's reputation for cutting innovation dates back 50 years to 1968, with Hypertherm's invention of water injection plasma cutting. The 100 percent associate owned company, consistently named a best place to work, has more than 1,400 associates along with operations and partner representation worldwide. Learn more at www.hypertherm.com •



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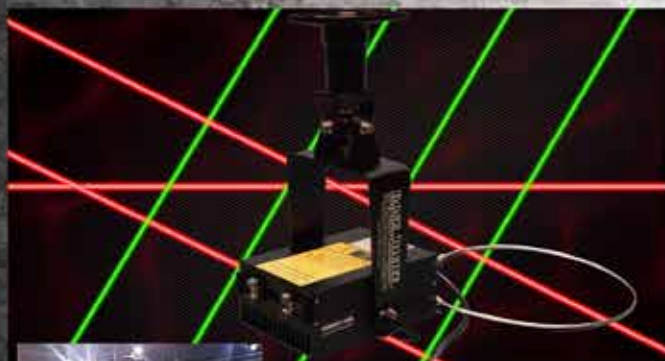
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