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June 2022

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Press for MuShield

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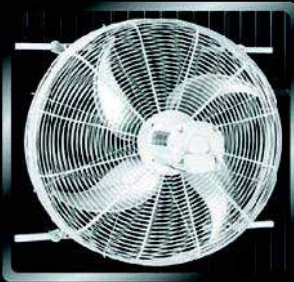
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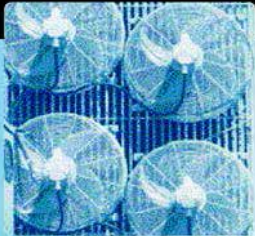
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CARBITEX AWARDED PATENT FOR NEW ANTI-PUNCTURE FLEXIBLE CARBON FIBER INSOLE

AFX-AP Technology Launches Carbitex's First Foray into Work and Utility Footwear Markets

Carbitex – the leader in flexible carbon fiber composites – is proud to announce the recent patent protection of its new anti-puncture foot plate technology. Expanding its advancements across flexible carbon fiber innovations, Carbitex's new AFX anti-puncture (AFX-AP) material offers increased protection without compromising asymmetric flexibility; notably ideal for workers at increased risk of underfoot injury as often seen in construction, workwear, and utility sectors.

Carbitex AFX anti-puncture material (US Patent # 11109639B2) is a multi-layer composite plate that offers the highest degree of performance, and is the only plate with anti-puncture protection and asymmetric flexibility. The new AFX-AP is a protective evolution of Carbitex's lightweight flexible carbon fiber AFX technology that is stiff in one direction to prevent the foot from over-flexing, and is highly flexible in the other direction for improved ergonomic movement. AFX-AP passes global industry test standards (ASTM F2412-11, EN 12568:2010, CZA Z195-14).

The AFX-AP technology was created by Arjun Shanker, Scott Woolley and Tyler Carpenter, who identified an opportunity to develop an advanced material that would allow for an evolution of traditionally heavy and bulky work-shoe construction to lighter more nimble footwear, that still retains the protective and supportive qualities. AFX-AP allows for this shift by providing the protection and stability usually accomplished through heavy and bulky outsoles in a lightweight package.

"Pushing the paradigm of the construction of work shoes, AFX-AP reduces the need for heavy, stiff protective soles and makes way for lighter, flexible, more ergonomic footwear," says Tom DeShiell, Principal Engineer/R&D Manager at Carbitex. "Our latest innovation addresses the critical needs of workers, providing protection and stability, with lightweight performance for long hours on the job site."

AFX-AP is Carbitex's first foray into the work and utility footwear markets, and is available to brand partners beginning Fall 2022 for in-market product release as early as Fall 2023. •

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Beckwood Press Company to Build Triform 16-15-7 Deep Draw Sheet Hydroforming Press for MuShield

Beckwood Press Company, a leading manufacturer of custom hydraulic and servo-electric presses, automation systems, and the Triform line of precision forming equipment has been awarded a contract by MuShield to engineer and build a Triform 16-15-7DD. With this new piece of hydroforming equipment, they will draw form sheet metal magnetic shielding solutions for components used in the medical, aerospace & defense, utility, and electronics industries.

The new Triform deep draw sheet hydroforming press will have a 16-inch forming area, a 7-inch draw depth capacity, and the ability to hit pressures up to 15,000 PSI. The press will also be equipped with a lower punch force cylinder increase which allows for larger part formation at higher pressures.

To facilitate fast die changeover, a tool change station will be provided for the ease of loading and unloading tooling. A cartridge-style lower chamber, fixed on rollers, will be supplied with the press to allow movement in and out of the forming chamber. The shuttle will also be equipped with a punch

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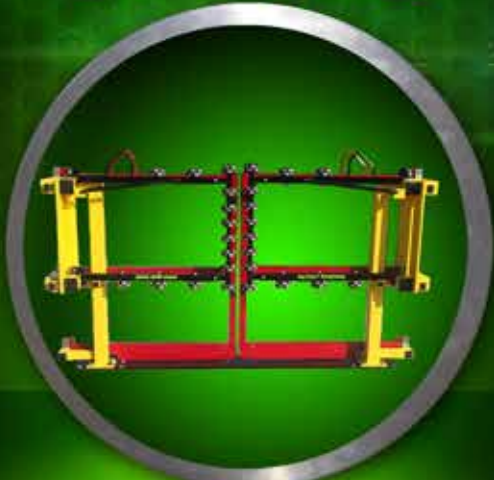
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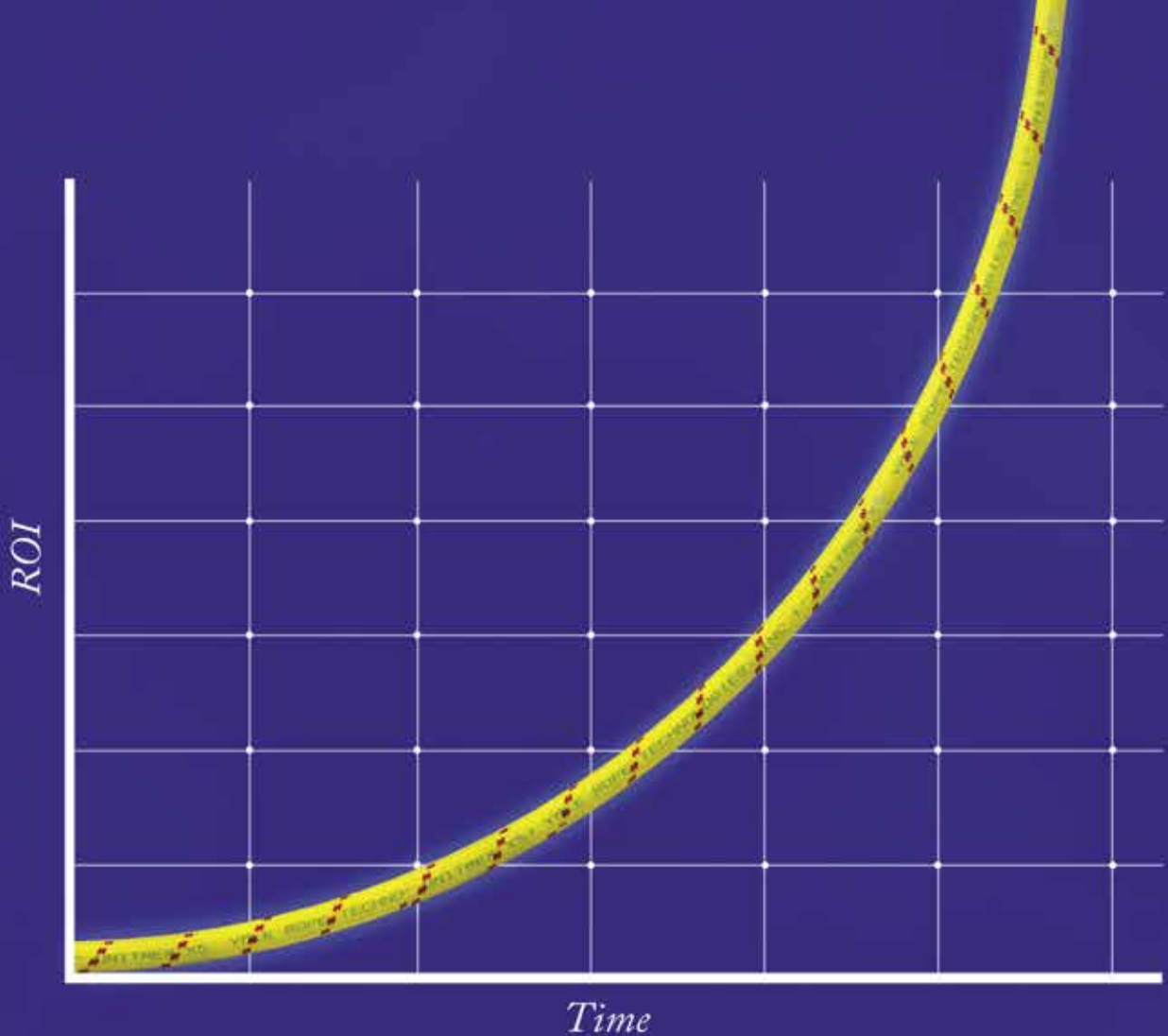
To integrate with MuShield's existing systems, a barcode reader for recipe handling will be included. Triform's intuitive programming allows for storage of over 10,000 part recipes with full control of optimal forming pressures and desired positions throughout the draw.

"The Triform 16-15-7DD from Beckwood Press has been on our radar since we saw it on the floor at FABTECH in Las Vegas a few years back," said Luke Grilli VP of Sales and Marketing at MuShield. "The machine is going to take our current hydroforming capabilities to the next level as we stay ahead of the competition as an industry leader in custom magnetic shielding. More importantly, it will also allow for peace of mind that we have an excellent hydroform on the shop floor for the next 20+ years."

"We are very excited to partner with MuShield on this project and provide their team with a reliable hydroforming solution for their existing work, while also supporting their effort to drive future growth with a larger machine and the latest in technology," said Beckwood Sales Manager, Caleb Dixon. "Our goal is to collaborate with our customers on the types of parts they will be forming, to ensure we are delivering the right solution for the job."

About MuShield

MuShield is a worldwide industry leader as a manufacturer of custom magnetic shields, precision sheet metal fabrication, and hydroforming. Established in 1989, the company manufactures advanced magnetic shielding solutions made from magnetic shielding alloys such as mumetal and other high nickel alloys. They also fabricate and hydroform high-quality components made from all materials with maximum efficiency and minimal waste. Learn more at www.mushield.com



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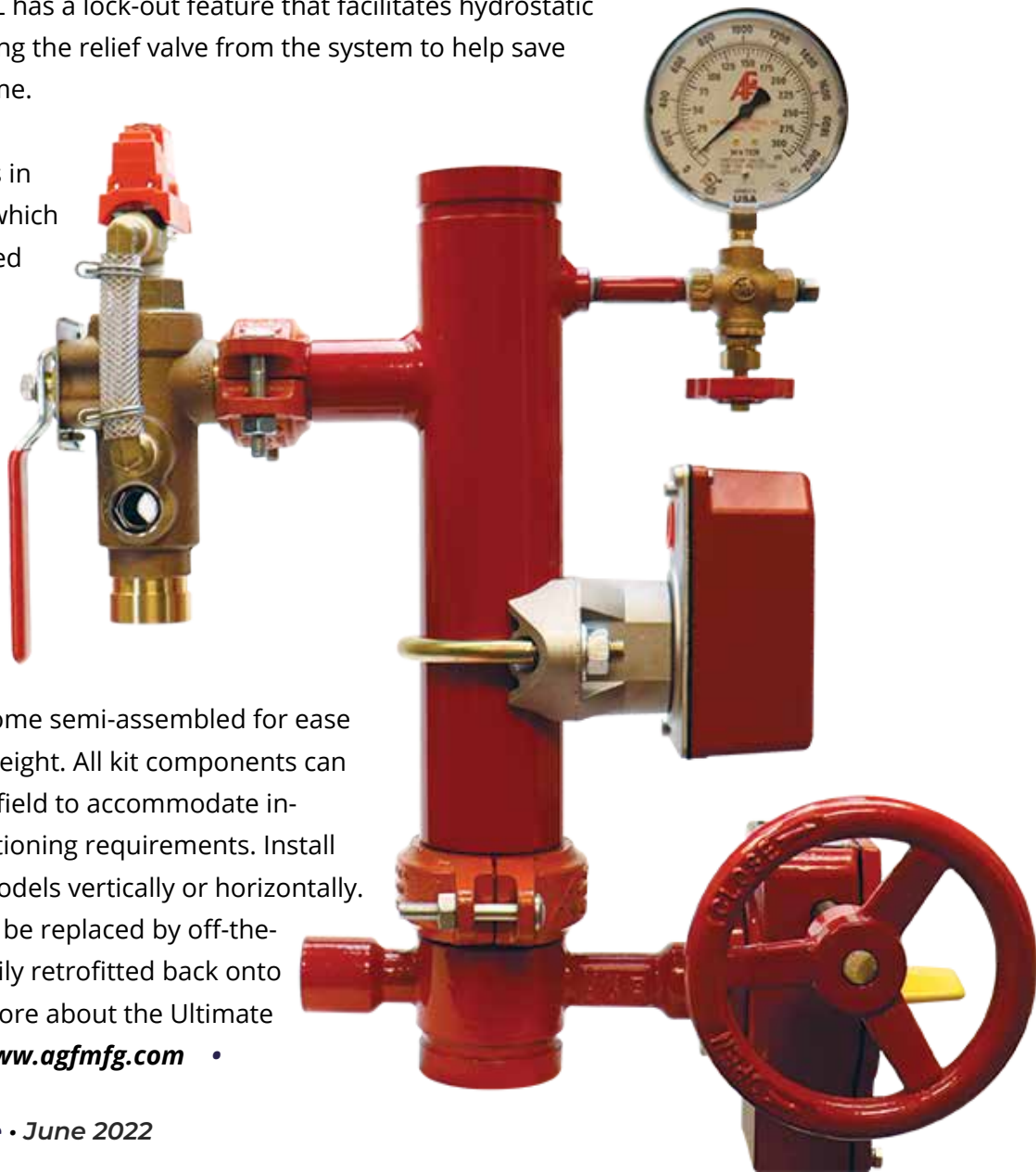
AGF Introduces Ultimate RISERPACK® Kits

Butterfly Control Valve and Check Valve Kits for Floor Control Assemblies

AGF Manufacturing is excited to introduce its new Ultimate RISERPACK Kits. These floor control add-on kits are available for AGF's commercial steel RISERPACK models 8000, 8011, and 8611. Choose from three Ultimate Kit options. Add a gear-operated slow close butterfly valve with tamper switch, check valve, or both butterfly valve and check valve. With the addition of an Ultimate Kit, the Ultimate RISERPACK is a complete floor control assembly that saves time and money on system installations.

AGF's RISERPACKs are compact, fully assembled risers. Models 8000, 8011, and 8611 meet NFPA 13 requirements for wet pipe fire sprinkler systems. They feature a TESTANDRAIN Model 2500 or 2511A for system testing and draining. NFPA 13 standards require the addition of a pressure relief valve on all wet systems. All model 8011 and 8611 RISERPACKs include AGF's Model 7000L pressure relief valve. The Model 7000L has a lock-out feature that facilitates hydrostatic testing without removing the relief valve from the system to help save valuable installation time.

The Ultimate Kit comes in three options: BFV kit which includes a gear operated butterfly control valve with tamper, CKV kit which includes a check valve, or BFVCKV kit which includes a butterfly control valve and check valve. Each Ultimate Kit comes pre-assembled on 2", 2½", 3" and 4" RISERPACKs; 6" and 8" kits come semi-assembled for ease of installation due to weight. All kit components can be repositioned in the field to accommodate installation location positioning requirements. Install Ultimate RISERPACK models vertically or horizontally. All kit components can be replaced by off-the-shelf parts and are easily retrofitted back onto the system. To learn more about the Ultimate RISERPACK kits, visit www.agfmfg.com •



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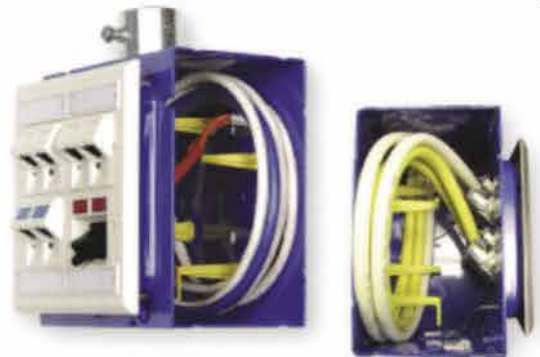
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Midea Residential Air Conditioning Introduces Industry-Leading EVOX Multi-Zone System in the U.S.

Midea EVOX Offers a Ducted and Ductless Compatible Multi-Zone System, Paired with a High SEER Inverter Heat Pump, Designed to Meet Evolving Energy Standards and be Accessible for More American Families



Midea, the world's largest producer of major appliances, has launched the new Midea EVOX Multi-Zone System in the U.S., equipping HVAC service providers with flexible and affordable product and system combinations that can seamlessly mix and match ducted and ductless configurations across multiple applications with up to five zones per heat pump. The EVOX multi-zone heat pump system is ideal for new home installations or replacing older central systems in any weather climate with affordable, highly efficient inverter technology.

With all new central systems requiring the U.S. need to meet new energy standards coming in 2023, inverter heat pumps with high SEER ratings are in demand. Multi-zone systems are proven energy savers by the Department of Energy, and Midea EVOX is leading the pack with an affordable and user-friendly system – both ducted and ductless – accessible to more Americans so they can help reduce their carbon footprint and future energy bills.

Evolving at the Cutting Edge of the Industry

The Department of Energy (DOE) recently emphasized that most heat pump products today have a significantly diminished capacity and efficiency in

colder climates and initiated the Cold Climate Heat Pump Challenge, which Midea joined as a manufacturing partner. The challenge encourages the industry to develop the next generation of cold climate heat pump technologies. Today, Midea is proud to already be producing some of the most energy efficient and high performing inverter technology cold climate heat pumps on the market that are capable of 100 percent heating output at -4 degree Fahrenheit.

"Midea America is committed to making quality, innovative, highly efficient inverter technology more affordable for all American households so they can take advantage of rewarding rebates and long-term cost savings on their energy bills, along with a total comfort experience," said David Rames, Senior Product Manager, Midea America. "We've worked with U.S. contractors to make sure the Midea EVOX Multi-Zone System is one of the most compatible inverter technology products in the industry today, and despite having some of the highest energy ratings, is very competitively priced – making it easier for suppliers and contractors to stock, sell and install a superior HVAC option."

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Compatibility Leader Among American HVAC Industry

The Midea EVOX Multi-Zone System is one of the most compatible systems on the market today and can mix and match with existing central ducted equipment (even non-communicating) as well as gas furnaces, can adapt to most installation conditions, and with a full lineup of ducted and ductless compatible split units, offer suppliers and installers with the options they need to meet a wide variety of customer expectations. Incorporating the EVOX AHU (up to three tons) into the multi-zone system makes the system applicable to wider scenarios and conditions, allowing homeowners to keep their familiar ducted system. With Midea's full lineup of ductless split units with capacity to control up to five zones, homeowners can add units to cover areas that are hard to heat or cool, less frequently occupied or part of an addition. For example, those looking to add zones for additional climate control in rooms such as additions, garages or basements can now easily integrate products within the EVOX system to their current setup, while achieving optimal air flow with full control and ease.

Thanks to their compatibility, all Midea EVOX products, including air handlers and ducted and ductless splits, can be used in single or multizone applications, reducing warehouse complexity supply challenges when customers change their minds and flexible sales plans to maximize revenue potential. Available in 1.5, 2, 3, 4 and 5-ton models, EVOX features universal product connections and is available up to 24 SEER and 11.5 HSPF – yet the system is still priced competitively.

"An added benefit and selling point for EVOX is the U.S. Government's push for advanced, green-sourced systems which is encouraging consumers to install highly efficient heat pumps with very attractive consumer rebates and incentives – which many of our products are eligible for," added Rames.

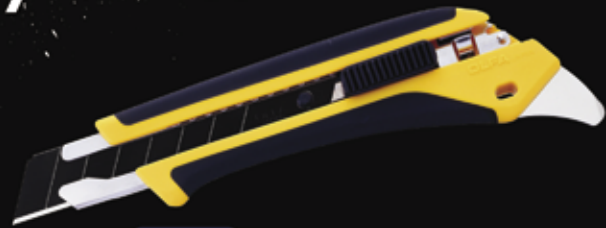
Midea's industry-first BI-COM technology enables the EVOX Inverter Heat Pump System to work with the EVOX communicating wall control, existing 24V thermostats or smart/learning controls such as Nest and Ecobee, among many others. As a result, consumers can get the benefit of inverter technology without having to change their existing indoor unit. And for multi-zone coverage with the addition of a Midea EVOX AHU or multiple split units, each split unit offers its own controller that can also serve as a thermostat. The entire system can also be syn

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Midea's industry-first BI-COM technology enables the EVOX Inverter Heat Pump System to work with the EVOX communicating wall control, existing 24V thermostats or smart/learning controls such as Nest and Ecobee, among many others. As a result, consumers can get the benefit of inverter technology without having to change their existing indoor unit. And for multi-zone coverage with the addition of a Midea EVOX AHU or multiple split units, each split unit offers its own controller that can also serve as a thermostat. The entire system can also be synchronized to the Midea Air App for simple wireless control. Today, with its large capacity heat pump system, Midea is one of the only manufacturers that can put two air handling units on one heat pump or install up to a 36K BTU air handler in a residential multi-zone application.

Minimize Installation Time with New Synchro-Connect Technology

Because Midea worked closely with U.S.-based contractors throughout the product development process, not only is the product flexible, but unique design features like Synchro-Connect

Technology make it easier to work with, helping to streamline installation time and removing potentially costly extra work due to improper wiring or refrigerant line installation. During the installation of multi-zone systems, installers need to connect wiring and piping between different indoor units and multi-zone condensers. Thus, it is important to ensure both refrigerant lines and the wires are connected to the right ports and terminals. This technology enables the EVOX Multi-Zone heat pump to self-diagnose its connection status, meaning installers of Midea can focus on correctly connecting the refrigerant lines or the Wires, and the other will automatically match with the activation of Synchro Connect technology.

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with an annual air conditioner production capacity exceeding 67 million units. Because Midea owns most of its production chain, including the vital inverter technology compressors, the company is intent on keeping this technology affordable, achieving lead times of 45 days for the initial order and have the products delivered to our distributor partners in around 90 days, including shipping time. For a regular order, the lead time can be achieved in 30 days, and for key components, the lead time is around 30 days to distribution. With a high-mass manufacturing capacity and comparatively short lead times, Midea is an ideal solution for HVAC service providers when looking to ease the impact of current shipping and supply challenges facing the industry today.

Midea EVOX Cold Climate Heat Pump

The Midea EVOX cold climate heat pump delivers premium heating, cooling and humidity control, all from an environmentally natural source. The heat pump is an air source system that harvests the free, natural energy found in outside air and then supplies the home with efficient and renewable heating and cooling. By eliminating the need for homeowners to rely on fossil fuels for climate control, they must no longer choose between incredible heating performance and energy savings. For example, The EVOX M-POWEVI is designed specifically for areas that experience extreme cold, can deliver 100 percent or more heating output down to -4°F and is capable of superior heating performance down to -13°F outdoor temperatures.

Many of Midea's EVOX Heat Pumps are Energy Star compliant and hold a top spot for energy ratings within the industry, with a high coefficient of performance (COP), heating seasonal performance factor (HSPF) and seasonal energy efficiency ratio (SEER). For colder months or optimizing operational cost, EVOX systems can also be paired with existing gas furnaces to provide a reliable source of heat under the most extreme climates.

Midea EVOX Air Handling Units (AHU)

Midea EVOX AHUs feature high compatibility and can be paired with most manufacturers' heat pumps, along with existing thermostats, ductwork and refrigerant lines. By delivering the right amount of CFM, the EVOX AHU can effectively reduce energy waste due to excess airflow. Computational Constant Airflow (Constant CFM Blower) enables airflow to automatically adapt to the existing ductwork designs and issues caused by blocked coils, dirty filters and improper duct sizing by adjusting output power and fan speeds. Easy to maintain, EVOX AHUs offer four-way multi-poise installation options, a remove-



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Slim Duct, All Easy Pro High Wall, Floor Console and Compact Ceiling Cassette. Midea EVOX components are ideal to meet the needs of current rooms, special space requirements, areas with no ductwork and spaces in the house where the existing system cannot handle changes in the heating or cooling load. Thanks to Omni-Mix engineering, almost all Midea single-zone indoor units can flexibly mix and match with Midea multi-zone outdoor units, providing suppliers and installers with more options without having to stock single and multi-zone varieties of the same Splits.

For more information about Midea EVOX Multi-Zone Systems, visit www.mideaevox.com. If you are interested in learning more about the products, please contact our product representative Sam Ye at sam@midea.com. For technical and application inquiries, please contact Stephane Bessette at stephane.bessette@midea.com. If you are interested in purchasing a system or product, please contact one of our sales representatives, Denis Liu denis_liu@midea.com, or Stephan Tong stephan.tong@midea.com.

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able slide-out blower, intelligent diagnostics and easy access to the adaptive control system for easy maintenance and repair. EVOX AHUs also use industry standard sized air filters that can be conveniently purchased at your local big box stores or online.

Available in sizes from 1.5-5 tons, EVOX AHUs feature computational constant air flow up to 0.8 in. wc, stand pressure up to 1.0 in. wc, a corrosion resistant aluminum evaporator coil and can be equipped with optional auxiliary heat kit up to 25 kW. The unit's dimensions were designed specifically with U.S. contractor feedback, easing installation by fitting inside the existing footprint of most competitor units.

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Mastercam 2023 is Now Released

Customer and Industry Input Drives Multiaxis, Mill-Turn Advancements

CNC Software, LLC, developer of Mastercam, the world's leading CAD/CAM software, announces the release of Mastercam 2023.

Manufacturers worldwide got the chance to test-drive Mastercam 2023 during the Public Beta Program before it was released and provided valuable feedback to help shape the final 2023 product. Many of the improvements in Mastercam 2023 are directly driven by Mastercam users and shops. Feedback from Public Beta releases, shop visits, customer surveys, and consultation with our expert industry partners create the practical, shop-driven focus that helps ensure Mastercam users' success.

Expanding and Consolidating Multiaxis Toolpaths

The new Unified Multiaxis toolpath brings together Morph, Parallel, Along Curve, and Project Curve strategies into a single interface, delivering expanded and highly flexible cutter path creation. The Unified toolpath allows access to these cut patterns when you add the appropriate curves. For example, to create a toolpath that morphs between two surfaces, select Unified from the Multiaxis toolpaths, and then set the Cut Pattern to two surfaces with the Morph style. The Unified toolpath allows for more flexibility in cut pattern when programming in Multiaxis.

New B-Axis Contour Turning Toolpath

Mastercam 2023 introduces a new toolpath to the Turning suite for the Mill-Turn product. B-Axis Contour Turning is a finishing toolpath that allows for rotation of the B-axis while the tool is cutting. The toolpath features a top-down workflow and provides you with either Automatic or Manual motion control. Automatic mode produces safe toolpath motion that keeps the insert in contact with the contour. Manual mode offers full control over the B-axis angles along the contour. Areas that would have taken multiple

tools and resulted in blends are now possible with one single toolpath, resulting in superior finish, fewer tool changes, and less cycle time.

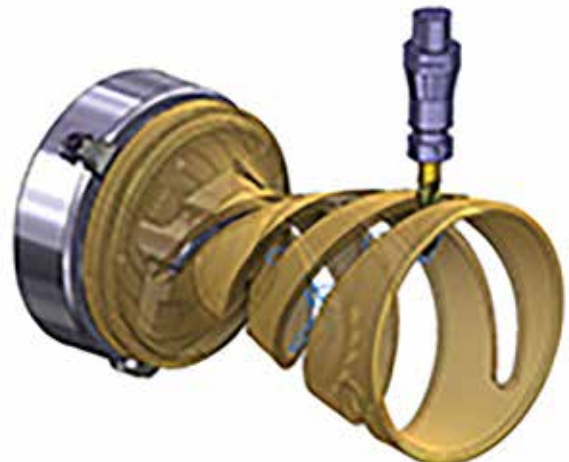
Detecting Undercut Stock When Machining

The Dynamic OptiRough and Area Roughing toolpaths can now be aware of undercut stock conditions, resulting in improvement to the toolpath motion, including less air cutting.

Machine Group Setup

Mastercam 2023 introduces the new Machine Group Setup function panel for Mill and Router machine groups. This panel encompasses features and functionality from the Machine Group properties dialog box, including new features. Machine Group Setup provides a clean, modern interface to define stock, material properties, workholding, tools, and simulation settings. Accessing all of the critical components of setting up a job, from stock to simulation, has never been easier or more organized.

These are only a few of the new features and enhancements coming to Mastercam 2023. For more information on Mastercam 2023, please visit www.mastercam.com/mastercam-2023/ or www.whats-new.mastercam.com •





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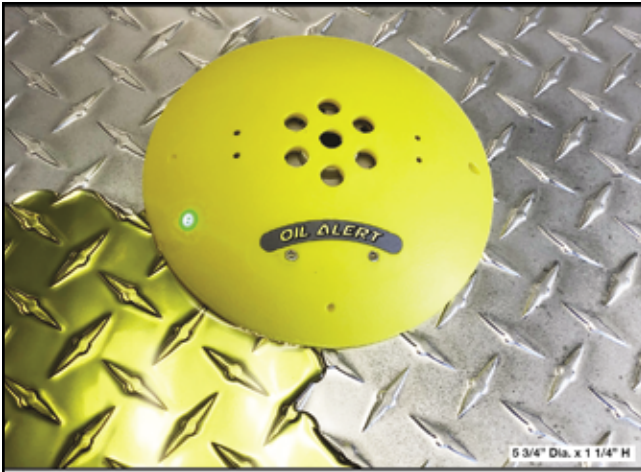
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