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May 2023

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**Beckwood Press  
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1500 Ton Hydraulic  
Stamping Press for  
Hendrickson  
USA, L.L.C.**

**Greenerd Designs, Engineers New Two-Press  
Production Cell for Lights-Out Operations**

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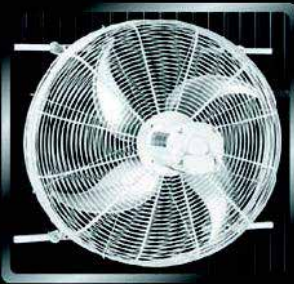
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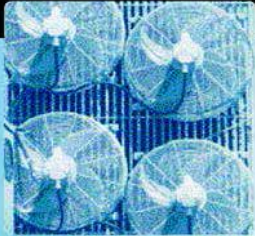
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# GROB Systems Announces Versatile and Economical



# Compact, Robot Cell



GROB Systems, Inc., a global leader in the development of manufacturing systems and machine tools, has introduced its new, compact GRC-R12 Robot Cell which offers a flexible, customizable and affordable automation solution for the GROB G150 5-Axis Universal Machining Center, the smallest horizontal machining center to-date for the company in its modular G-series Universal line. The introduction of the GRC-R12 robot cell broadens GROB's range of automation solutions for creating flexible manufacturing cells.

"We are very pleased to offer our customers a versatile and robust automation solution to further increase productivity on the G150 machining center. Our customers see a big advantage in having the automation and machining center come from the same builder because it enables a better support model to keep the cell running at high efficiency long-term," said Derek Schroeder, Universal Machines, Sales & Proposals Manager, GROB Systems, Inc. "Due to its flexible configuration options, we can design the compact cell to meet unique customer needs, making it possible to produce a wide variety of parts and processes on one system. Also, we prioritized minimizing the cell's footprint to save valuable floor space."

The cell has a 6-Axis FANUC M-10iD/12 Robot with 4.7' (1,441 mm) reach, capable of handling a maximum load of 26.5 lbs (12 kg). The GRC-R12 features a pneumatic single-or double-gripper system. The drawer feed system can have up to six drawers that can be unloaded and reloaded while the robot cell and machining center are in operation. With GROB's unique machine design, excellent chip control inside the machining center allows for long periods of unmanned operation without faults. Offering high customizability, customers may select from capabilities such as a blowoff box, SPC drawer and an alignment station.

The compact GRC-R12 base unit which holds the robot cell has dimensions of approximately 5' x 5' (1600mm x 1600mm), facilitating fast delivery and installation. When the robot cell is fully setup with the G150 machining center including monitors and accessories, overall space dimensions are approximately 24' (7,400 mm) length x 10' (3,250mm) width. The GRC-R12 robot cell features a side access door which provides ergonomic, ample access to the G150 machine for new jobs, fixture changes and maintenance, with a window that provides good visibility to the machine. For ease of operation, integrated software enables intuitive cell control.

To see the GROB GRC-R12 Robot Cell in action, watch the video at <https://youtu.be/-oTrL6QMDOY>.

#### About GROB Systems

For over 90 years, GROB has been known worldwide for the development and manufacturing of machines and production lines. GROB has in its portfolio several universal 5-axis machining centers as well as a variety of automation solutions. The unique retractable spindle provides unmatched accessibility to the work piece, is the most rigid when extended to the workpiece, and even allows for upside-down machining which provides superior chip control. The Z-axis design also allows tool changes to happen outside of the work area which enables users to machine the largest part that fits in the machine regardless of tool length requirements.

GROB is a family-owned company with global headquarters located near Munich, Germany and has full manufacturing capabilities in the United States, Germany, Brazil, China, and Italy. More than 800 employees at the 400,000 square foot U.S.A. facility in Bluffton, Ohio support GROB customers across North America.

For more information contact GROB Systems, 1070 Navajo Drive, Bluffton, OH 45817 U.S.A. Telephone: 419-358-9015, email: [info@us.grobgroup.com](mailto:info@us.grobgroup.com), [www.grobgroup.com/en/](http://www.grobgroup.com/en/)

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An automated wastewater treatment system can eliminate the need to monitor equipment in person while complying with EPA and locally mandated requirements. Such automated systems separate suspended solids, emulsified oil and heavy metals, and encapsulate the contaminants, producing an easily de-waterable sludge in minutes. The water is typically then separated using a de-watering table or bag filters before it is discharged into sewer systems or further filtered for re-use as process water. Other options for de-watering include using a filter press or rotary drum vacuum. The resulting solids are non-leachable and are considered non-hazardous, so will pass all required testing.

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## Beckwood Press Company to Build 1500 Ton Hydraulic Stamping Press for Hendrickson USA, L.L.C.

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Beckwood Press Company, a leading manufacturer of custom hydraulic and linear-servo presses, automation systems, and sheet hydroforming equipment has been awarded a contract by Hendrickson USA, L.L.C. to engineer and build a 1500-ton hydraulic stamping press. With this new piece of equipment, they will have the ability to blank, deep draw, and form parts for the transportation industry all on a single machine.

Hendrickson needed a press to increase capacity, improve programmability, and offer more flexibility with increased tonnage. Their new custom-engineered press will feature an 8-point square gib guidance system for maximum parallelism and a 50" x 160" working area to accommodate a multitude of applications including high-tonnage blanking, deep drawing, and forming.

Because high-tonnage blanking causes large amounts of breakthrough shock, press-mounted hydraulic dampers will be included which increase damping capacity from 70% to 90%. A robust 12" damper height adjustment will allow for flexible die working heights. Along with the dampers, vibration pads will be added to the feet of the press, and the hydraulic power unit will be isolated from the press structure to reduce shock transfer to sensitive components.

The press will also be equipped with a hydraulic bed cushion featuring dynamic cushion control, which allows all five cylinders to be controlled independently at 30-tons each. This level of programmability reduces wrinkling and tearing during intricate draw work. A high-speed Delta motion controller adds to the flexibility, offering increased force and positional accuracy while reducing the minimum tonnage capacity.

To ensure operator safety during die changeover, a SITEMA ram safety catcher system and rod lock will be included for redundant visual and load holding of the ram while the press is idle. Light curtains will also be included at the front of the press and hard guarding covering rear and sides.

"We, at Hendrickson, are excited about the new opportunities and enhanced manufacturing capabilities this investment offers our business. The deep draw, high tonnage capability of the Beckwood press will align our strategic manufacturing vision with our customer requirements. Working with Beckwood, we were able to customize a press to fit our customer's specific product requirements, while maintaining a common platform to accept our current dies and space constraints," says Chris Batsch, General Manager for Hendrickson Bumper.

"The Hendrickson team allowed us to explore a number of options for speeds of the press, tonnage requirements for specific parts, and other press specifications," notes Beckwood sales engineer, Gerard Choinka. "Together, we've been able to create an optimized solution that is going to meet their exact needs."

*About Hendrickson*

*Hendrickson is a leading global manufacturer and supplier of medium and heavy-duty mechanical, elastomeric, and air suspensions, integrated and non-integrated axle and brake systems, tire pressure control systems, auxiliary lift axle systems, parabolic and multi-leaf springs, stabilizers, bumpers, and components to the global commercial transportation industry. Learn more at [hendrickson-intl.com](http://hendrickson-intl.com)*

*About Beckwood Press Company*

*Beckwood Press Company is a leading manufacturer of hydraulic and servo presses, located in St. Louis, MO - USA. Established in 1976, they offer both standard and custom presses, unique engineering capabilities, and automation equipment for virtually every industry and application. Beckwood also manufactures the Triform line of precision forming equipment, the EVOx line of servo-electric presses, and the LSP™ line of linear servo presses. Get the latest news from Beckwood at [beckwoodpress.com/news](http://beckwoodpress.com/news).*

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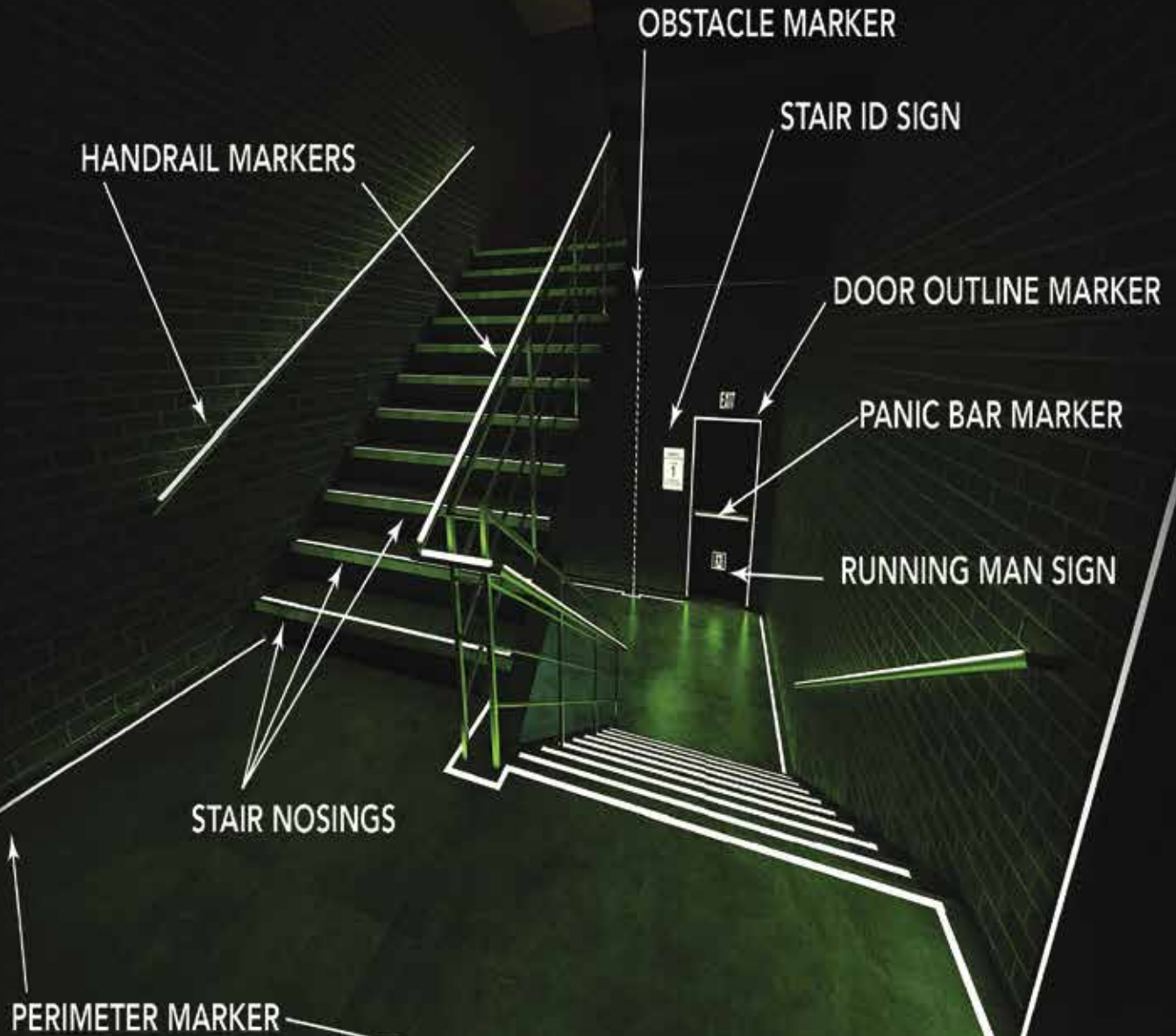
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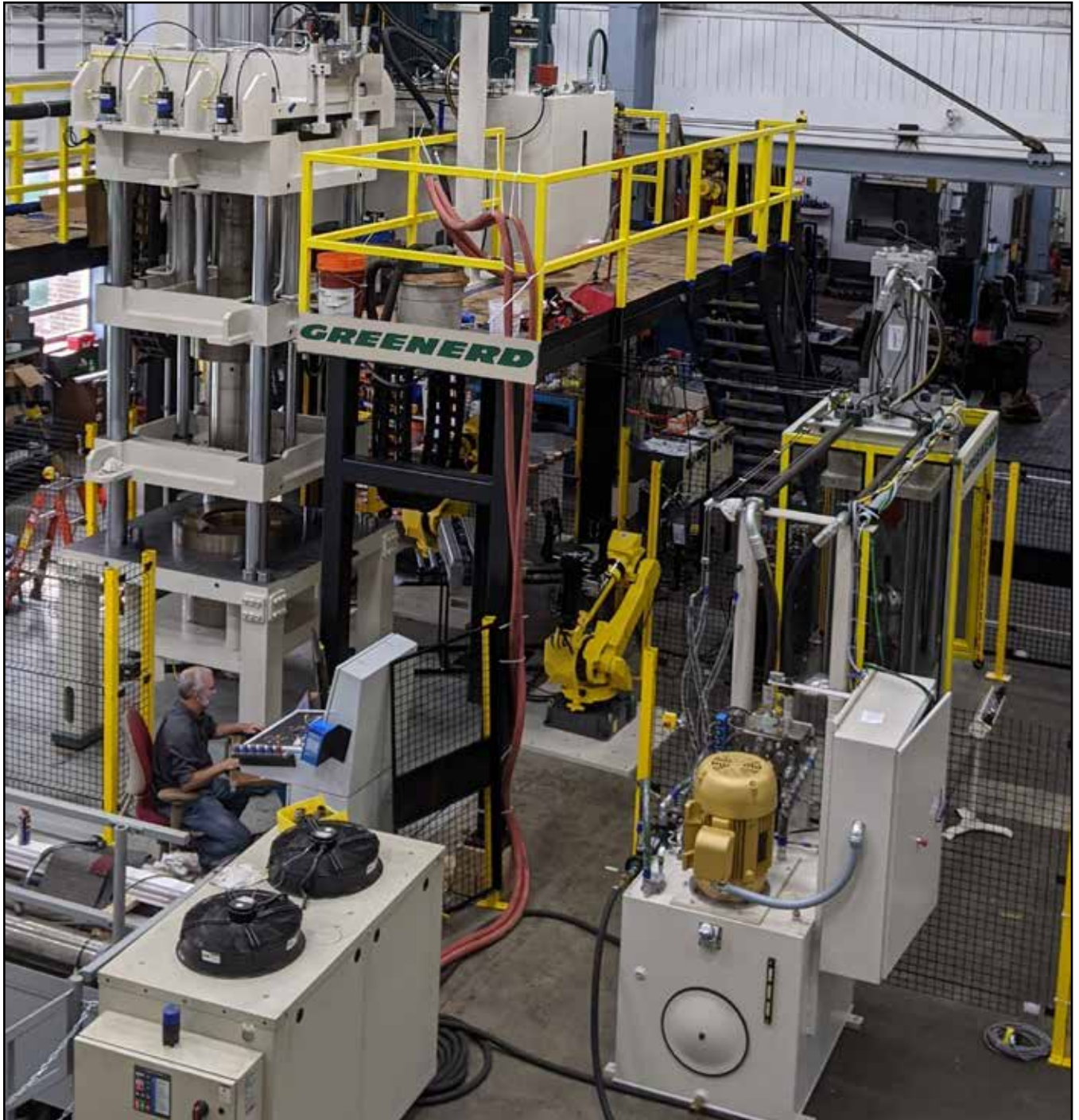
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# Greenerd Designs, Engineers New Two-Press Production Cell for Lights-Out Operations



Greenerd Press & Machine Company has announced it has designed, engineered, built and turnkey-installed an automated two-press, two-robot production cell enabling unattended production of large aluminum pressure vessels.

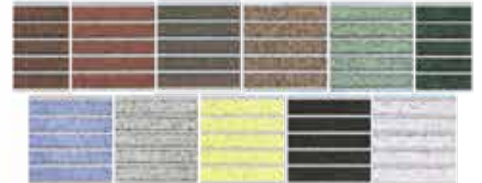


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A second FANUC robot then catches and transfers the formed parts to a second Greenerd press for a punching operation. The two-press production cell uses a centralized control station which sets the operating parameters of both presses and controls the action sequences of both FANUC robots. All equipment in the cell is automatically updated with new process parameters when changing between products.

Greenerd provides unique hydraulic press automation solutions for a wide range of industries and applications. "Increasingly, our customers are seeking turnkey, state-of-the-art robotics and other product handling solutions. To meet the demands of today's challenging applications, we are providing manufacturers with automated press solutions that are flexible, productive and reliable," commented Greenerd Press & Machine Company's President and CEO, Mr. Jerry Letendre.

Greenerd has a long tradition of designing, engineering and manufacturing customized hydraulic press systems with product handling solutions. Greenerd's extensive line of hydraulic presses are available in a variety of styles ranging from gap frame and straight-side to die-spotting and forging presses, with unlimited size and tonnage capabilities.

#### *About Greenerd Press & Machine Company*

*Founded in New England in 1883, Greenerd has designed and built thousands of high-quality custom and standard hydraulic presses since 1934. Designed to meet challenging application needs, Greenerd presses are made to withstand the rigors of around-the-clock production and deliver many decades of service.*

*Greenerd has decades of in-house applications engineering experience, successfully designing presses for a broad range of manufacturing applications. Utilizing the latest engineering technologies, Greenerd engineers design and build innovative, safe, efficient, reliable hydraulic press solutions with the latest controls and automation features. For more information, contact Mr. Tom Lavoie at Greenerd. Phone number 800-877-9110, x 251, e-mail [tlavoie@greenerd.com](mailto:tlavoie@greenerd.com) or visit [www.greenerd.com](http://www.greenerd.com) •*



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