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Beckwood Engineers 75-Ton Hot Forming Press for Cutting Dynamics



**Beckwood to Showcase Three
Aerospace Forming Press
Technologies at FABTECH® 2018**

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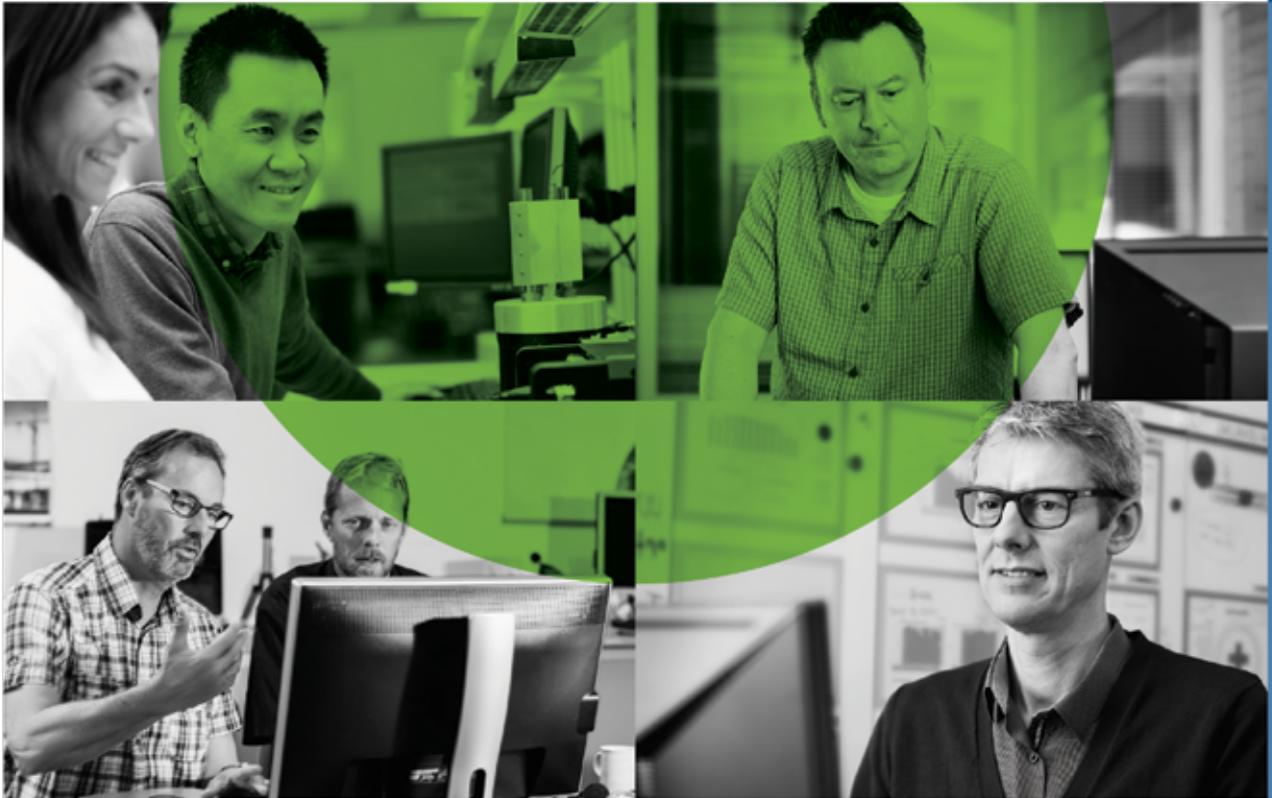
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Moving Big Cylinders: No Problem With Newly Designed Creform AGV

A customer challenged Creform to develop a solution to handle the transport of its pressurized fuel cylinders during manufacturing

Creform Corporation engineers have designed and built a custom AGV to handle the transport of large pressure fuel cylinders during manufacturing. The design not only challenged Creform's AGV building capabilities but also its mechanical design ingenuity. The company met the challenge and built a one-vehicle, bi-directional AGV that would be used to move the cylinders between five assembly and two finishing stations.

Creform designed and built the AGV on a custom frame that measured 8.2 ft. long x 3.28 ft. wide (2.5M x 1M). The company also designed the system controls as well.

The AGV features a custom designed cradle, lined with plastic to avoid damage, to hold and position the cylinder. The cradle features a locking pin that rises automatically to guarantee the cradles position during transport. It features electrically-powered 100° rotation travel with three stop positions...one to load, one to transport and one to unload. Loading is operator initiated and route-directed with the use of an HMI screen all intended to ensure safe handling, while the unloading is automatic. The AGV was purposefully designed to replace a manual cart and to enhance production efficiencies of automation and safe handling for both the product and the associate handling.

The FH-C25100, Bi-directional AGV, designed and fabricated with a steel frame for strength and durability, comes equipped with a Creform bolt-on drive unit. Each end of the AGV follows a peel and stick magnetic tape guidepath to ensure accurate and repeatable tracking. This is particularly useful for space restrictive areas and to ensure repeatable alignment for the consistent transfer of loads. The guidepath is easily and quickly installed and allows for easy path change or when a repair is needed.



The unit is able to travel at speeds up to 82 fpm (25M) and has a load capacity of 2200 lb. (1000kg).

The 24-volt AGV is powered by two 12V, 160AH, AGM batteries. The unit contains side mounted opportunity-charging shoes that help to automatically maintain battery level. There is no need to cut into the floor for charging plates and the shoes are less expensive to install and more flexible if there is a need to reposition. The AGV has a powered engage/disengage to raise/lower drive wheels. When the drive wheels are elevated, AGV can be easily repositioned by an associate.

For this customer, the AGV follows an approximate 100 ft. guide path. The main path is a straight line but can travel laterally, in places, to position for transfer.

The unit features complete safety equipment for safety category 3. The safety equipment includes: Laser obstacle scanners front and rear with 16 settable zones; E-stop buttons at each end of the AGV; safety light and audible warning. It features cylinder position photo eyes for cradle control and to detect an unexpected load shift during transport.

The Creform System is used to create an array of material handling and efficiency enhancing devices and is a proven component in continuous improvement and Lean Manufacturing programs. The company partners with customers in developing and implementing these programs.

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Beckwood to Showcase Three Aerospace Forming Press Technologies at FABTECH® 2018

Beckwood Press Company, a leading manufacturer of custom hydraulic presses, automation systems, and the Triform line of precision forming equipment, will be showcasing hot forming and superplastic forming technology in addition to sheet hydroforming capabilities at FABTECH® 2018.

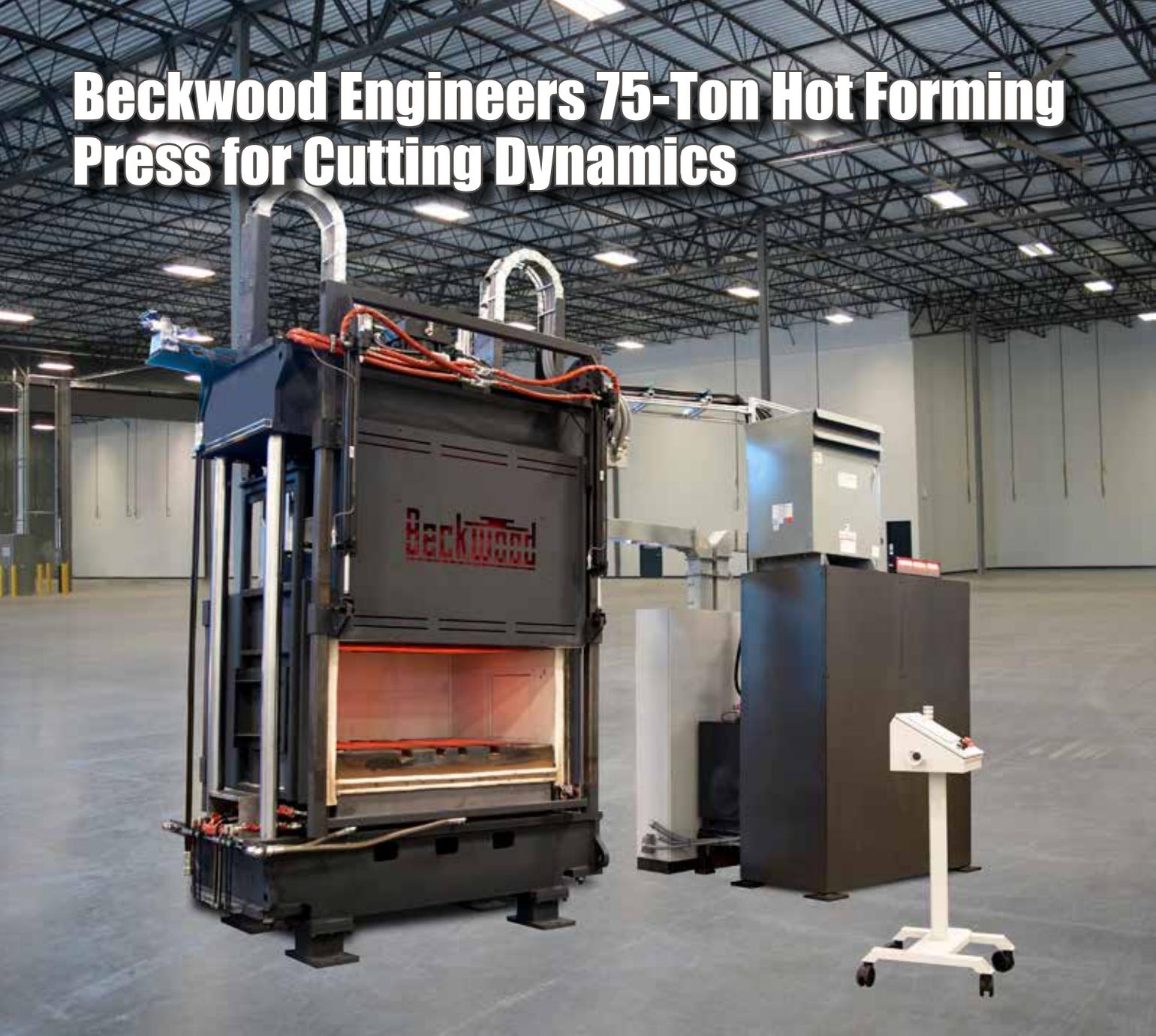
Visitors to booth A2053 will meet with hot forming application engineers and learn the benefits of hot forming titanium, how to overcome the barriers of entry into the hot forming market, and how to choose the right machinery specifications for safe, accurate forming. Booth A2053 will also feature fluid cell and deep draw sheet hydroforming demonstrations using a Triform model 610-20-3SC. Ideal for low-volume, high-mix part production, sheet hydroforming presses use a single, unmated tool and a pressurized rubber diaphragm to form parts with smooth, uniform, scratch-free surfaces that typically require no additional finishing.

During the show on Wednesday, November 7, 2018 at 1:30pm in room B316, Beckwood president Jeffrey Debus will lead a panel discussion titled "Feeling Hot, Hot, Hot: Overcoming the Challenges of Hot Forming Titanium to Win New Contracts." During this two-hour learning session, attendees will hear perspectives from the end user, machinery OEM, and material supplier for high temp tooling and gain unique insights into operator safety, part formability, and market viability of this emerging technology. Attendees are encouraged to share their forming challenges with the panel during the extensive Q&A session at the end of the seminar.

"With the increased demand for stronger, lighter aerospace parts, many manufacturers are looking toward new technologies and forming processes," said Jeffrey Debus, President of Beckwood Press Company. "Over the past decade, Beckwood has been at the forefront of this revolution, supplying machinery for nearly every major aerospace supplier in the world."

www.beckwood.com/fabtech •

Beckwood Engineers 75-Ton Hot Forming Press for Cutting Dynamics



Beckwood Press Company, a leading manufacturer of custom hydraulic presses, automation systems, and the Triform line of precision forming equipment, has partnered with aerospace parts supplier Cutting Dynamics to design and manufacture a 75-ton hydraulic press used to hot form titanium structural components.

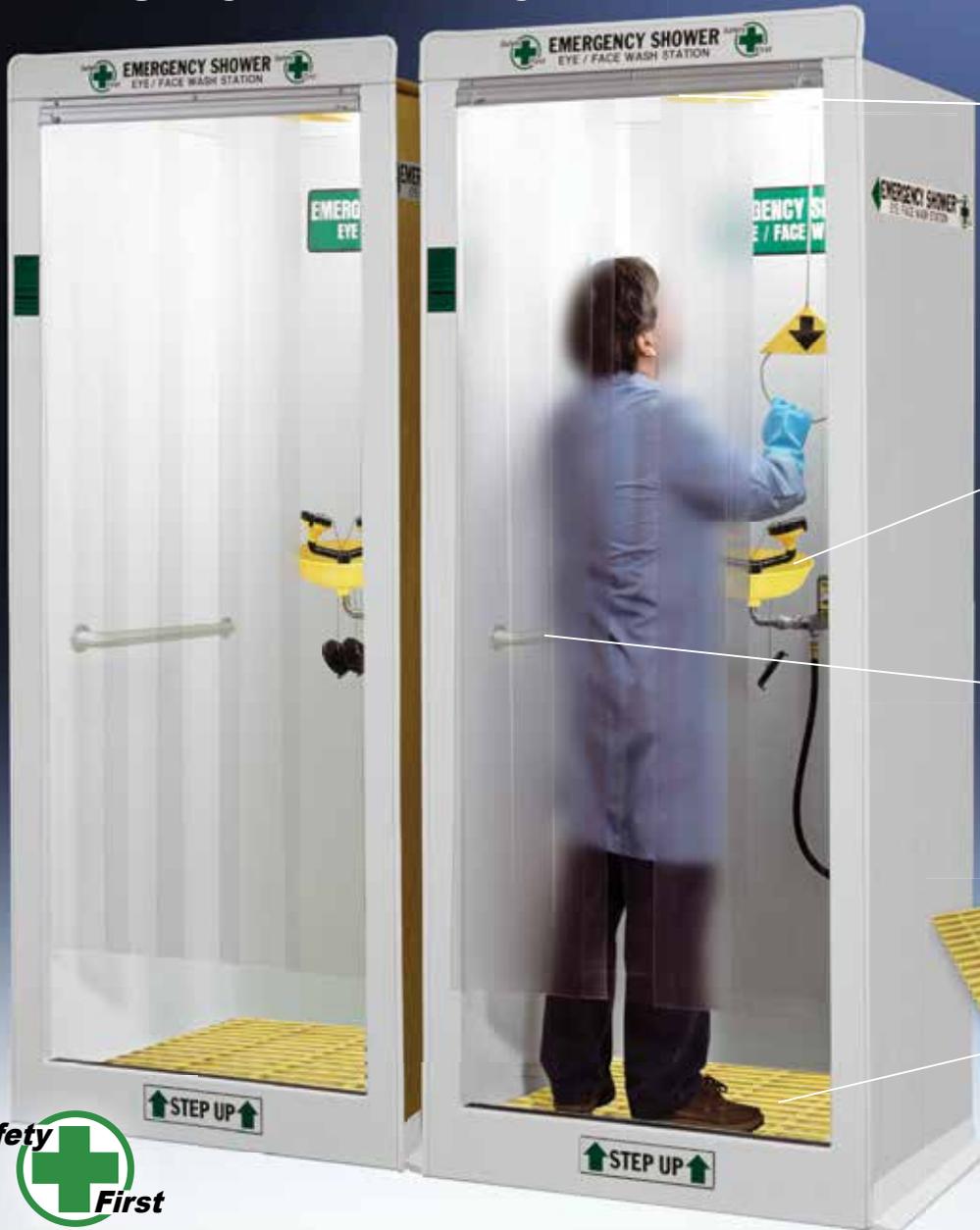
Capable of temperatures up to 1600°F, the custom press uses electric cartridge heaters to provide even temperature distribution throughout the forming process, increasing the malleability of titanium and reducing spring-back. Utilizing nine zones of heat control in each platen, operators can maintain a constant platen temperature to within $\pm 5^\circ\text{F}$ throughout the cycle. Additionally, automatic insulated door systems increase heat efficiency and maintain the desired temperature set points while facilitating easy part and tool loading.

This press also has capabilities for superplastic forming (SPF). Using a die infused with high-temperature argon gas, SPF presses are able to form high-strength materials into complex geometric shapes in a single operation.

Like all Beckwood presses, the structure is designed for Infinite Life using Finite Element Analysis (FEA). The

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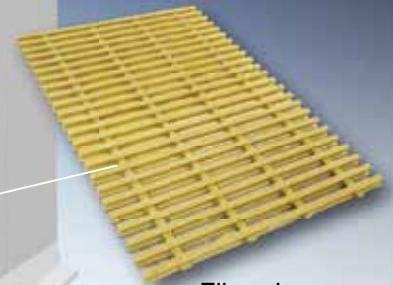
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simulation software mirrors real-world manufacturing stresses to ensure the press is robust enough to handle the most taxing applications. Additionally, Beckwood's PressLink™ remote support module offers fast, complimentary troubleshooting and facilitates program updates without the need for an on-site service visit.

"We are excited to be working with Beckwood on our hot form press," said Bill Carson, President of Cutting Dynamics. "We have been very pleased with the Triform equipment we previously purchased from them and expect our new press to perform at the same high standard. It should greatly enhance our product offering and enable us to provide even more complex formed and assembled titanium components to our customer base."

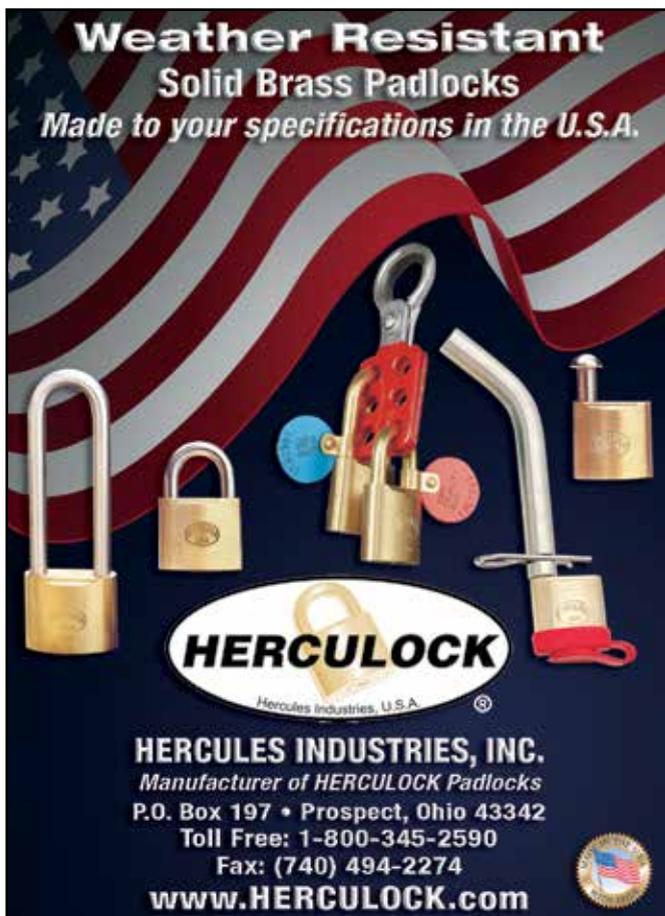
About Cutting Dynamics

Established in 1985, Cutting Dynamics is a leading provider of complex parts for the aerospace and defense industries. Their 165,000 sq. ft. facility in Avon, OH specializes in aircraft sheet metal assemblies, kitting, Thermoplastic composite fabrication, and hydroforming aerospace parts of all shapes and sizes. Cutting Dynamics is an AS9100 and ISO9001 certified facility.

About Beckwood Press Company

Beckwood Press Company is a leading hydraulic press manufacturer, located in St. Louis, MO USA. They offer quality, custom hydraulic presses for virtually every industry and application, including a line of temperature controlled presses for compression molding, composite forming and high-temperature Hot Forming / SPF applications. Beckwood also manufactures the Triform line of sheet hydroforming presses in both fluid cell and deep draw configurations, hydraulic ring expanders, hot joggle presses, and stretch forming machines for both extrusion and sheet / leading edge applications.

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Rex-Cut Abrasives Invests Nearly \$1M in Capital Equipment

New Making Line to be Installed for Increased Efficiency

Rex-Cut Abrasives, the oldest and primary manufacturer of cotton fiber abrasive grinding and finishing products, is investing in a new abrasive material manufacturing line. This equipment investment will allow Rex-Cut to product high quality abrasive material and finished goods well into the future.

Since 1928, Rex-Cut has made a proprietary abrasive material using a unique process that embeds grain into non-woven cotton fabric. Material varying in hardness and grit are produced to manufacture finished goods that are used in grinding, blending, and deburring applications in metalworking industries. All of Rex-Cut's cotton fiber products, including type 1 wheels, type 27 wheels, mounted points, and finishing sticks are all produced with this abrasive material made right in our Fall River, Massachusetts manufacturing plant.

This new system will increase efficiency and productivity throughout the abrasive material making process. This investment will also improve product consistency and quality as well as manufacturing longevity. "This is by far the largest capital investment project that we have embarked on for the sustainability of our business and future generations of employee owners", says Bob Costa, company President. The shutdown and dismantling of the old-line is complete and new equipment is now being installed. "The biggest challenge was producing surplus material to support Rex-Cut's order requirements during the making line changeover while at the same time, keeping up with increased business conditions".

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The new making line is being installed over the next 3 to 4 months at Rex-Cut's main facility located at 960 Airport Rd., Fall River Massachusetts and is replacing a material making line that was built in the 1920's.

Rex-Cut Abrasives is proud to be a part of Fall River's rich textile history and the manufacturing community providing jobs for 90 years. None of which would have been possible without the talent, hard work, and dedication of its employees.

More About Rex-Cut

Rex-Cut Abrasives provides the Metalworking industry with high performance, non-woven cotton fiber and other premium abrasive products, improving the daily grind for a worldwide customer network. The company is the oldest and primary manufacturer of cotton-fiber abrasive grinding and finishing products in the world. Rex-Cut products are specialized for use on Stainless Steel, Aluminum, Mild Steel, and Exotic Metals. A 100% employee-owned organization, Rex-Cut offers many other specialty products for use on a variety of grinding, deburring, blending, and finishing applications.



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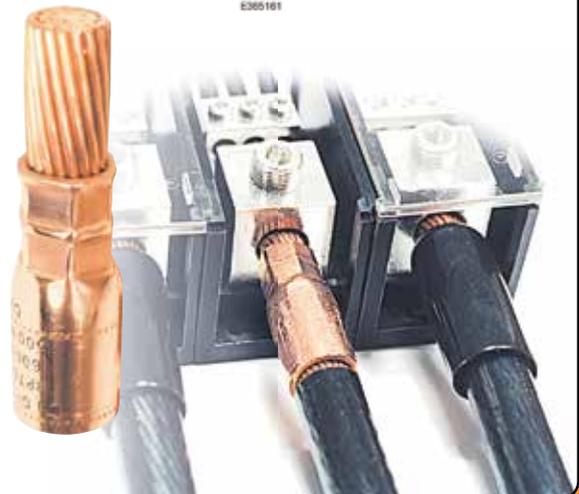
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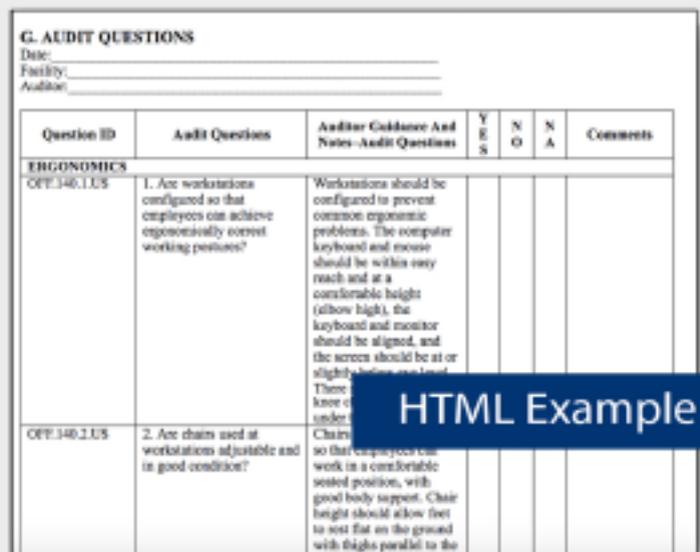
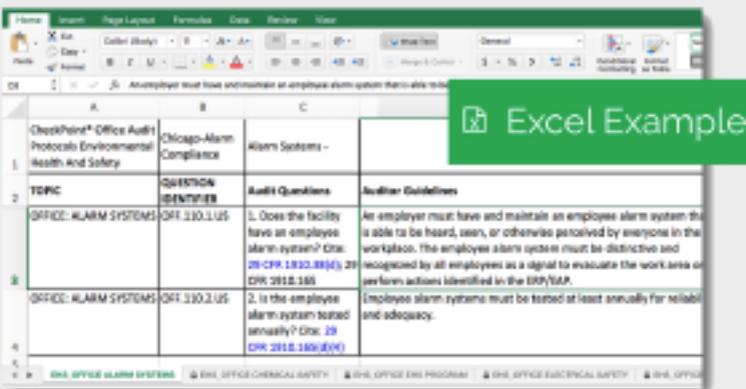
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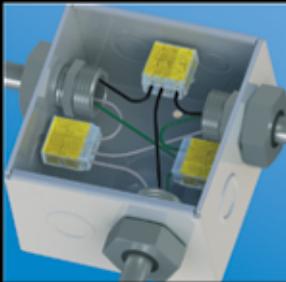
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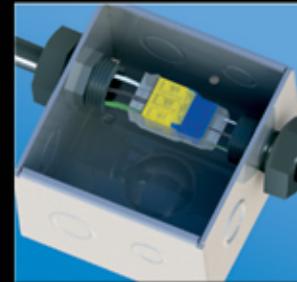
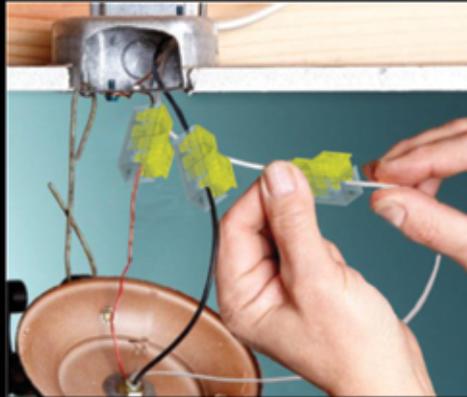
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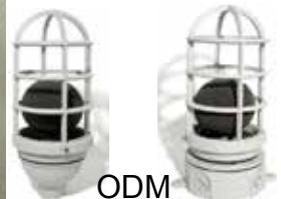
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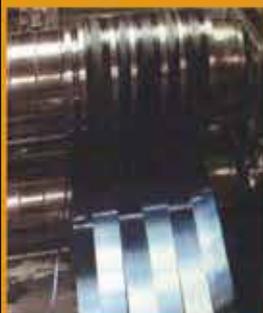
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