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May 2016

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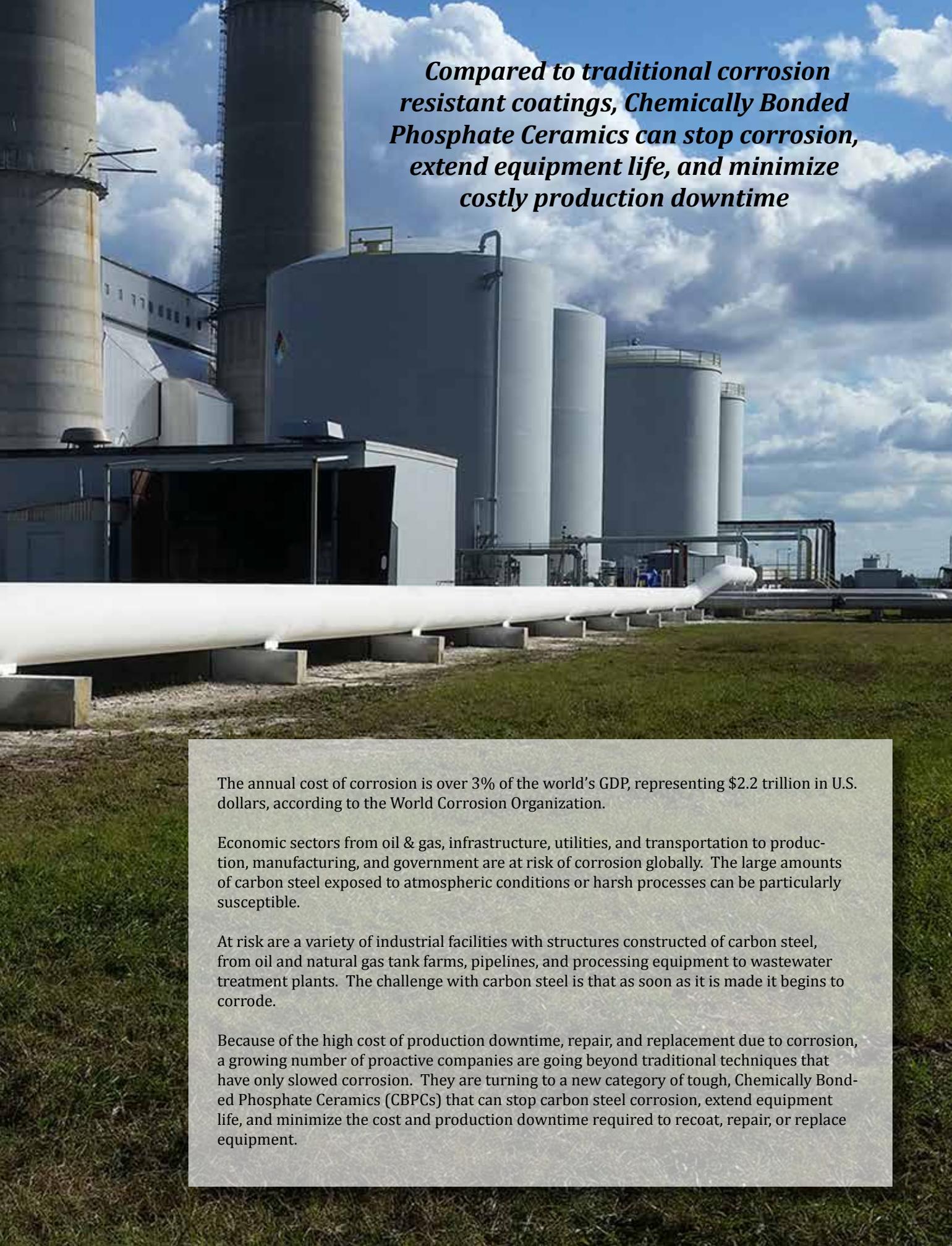
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Corrosion Protection with New Cost-Effective Coating

The background image shows an industrial facility with several large, cylindrical storage tanks of varying heights and colors (grey and white). A network of pipes and walkways is visible between the tanks. In the foreground, a long, white pipe runs horizontally across the frame, supported by concrete blocks. The ground is a mix of dirt and grass. The sky is blue with scattered white clouds.

Compared to traditional corrosion resistant coatings, Chemically Bonded Phosphate Ceramics can stop corrosion, extend equipment life, and minimize costly production downtime

The annual cost of corrosion is over 3% of the world's GDP, representing \$2.2 trillion in U.S. dollars, according to the World Corrosion Organization.

Economic sectors from oil & gas, infrastructure, utilities, and transportation to production, manufacturing, and government are at risk of corrosion globally. The large amounts of carbon steel exposed to atmospheric conditions or harsh processes can be particularly susceptible.

At risk are a variety of industrial facilities with structures constructed of carbon steel, from oil and natural gas tank farms, pipelines, and processing equipment to wastewater treatment plants. The challenge with carbon steel is that as soon as it is made it begins to corrode.

Because of the high cost of production downtime, repair, and replacement due to corrosion, a growing number of proactive companies are going beyond traditional techniques that have only slowed corrosion. They are turning to a new category of tough, Chemically Bonded Phosphate Ceramics (CBPCs) that can stop carbon steel corrosion, extend equipment life, and minimize the cost and production downtime required to recoat, repair, or replace equipment.

Stopping Corrosion, Minimizing Downtime

While many industries fight corrosion due to rain, humidity, or proximity to a marine environment, some companies must combat it in harsher conditions where caustic chemicals may be present – such as the inside of certain industrial tanks.

When a large wastewater treatment facility in Texas sought to control

corrosion in a number of mild steel equalization tanks, for instance, the status quo was unsatisfactory. Wastewater can be very corrosive to mild steel and traditional barrier coatings cannot reliably withstand it.

Polymer paints and rubber type coatings have long been used as physical barriers to keep corrosion promoters such as water and oxygen away from steel substrates. This works until the paint is scratched, chipped, or

breached and corrosion promoters enter the gap between the substrate and coating. Then the coating can act like a greenhouse – trapping water, oxygen and other corrosion promoters – which allows the corrosion to spread.

“Often you can’t see the corrosion until you flake off the paint if there is corrosion under the surface,” says Bobby Hobbs, a job foreman at Ennis, Texas based DC Metal Construction, a privately owned company specializing in steel construction and industrial plant building projects.

Although stainless steel resists corrosion well, and tank bottoms and other areas at high corrosion risk are sometimes constructed of it for that reason, it can cost up to six times as much as mild steel.

To control corrosion, the wastewater treatment facility chose to have DC Metal Construction coat the inside of several equalization tanks with EonCoat; a spray applied inorganic coating from the Raleigh, N.C. based company of the same name. EonCoat represents a new category of tough, Chemically Bonded Phosphate Ceramics (CBPCs) that can stop corrosion.

In contrast to traditional polymer coatings that sit on top of the substrate, the corrosion resistant coating bonds through a chemical reaction with the substrate, and slight surface oxidation actually improves the reaction. An alloy layer is formed. This makes it impossible for corrosion promoters like oxygen and humidity to get behind the coating the way they can with ordinary paints. The corrosion barrier is covered by a ceramic shell that resists corrosion, fire, water, abrasion, chemicals, and temperatures up to 400 °F.

Although traditional polymer coatings mechanically bond to substrates that have been extensively prepared, if gouged, moisture and oxygen will



New

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The advertisement features a blue wizard hat with yellow stars and crescent moons on a black background. A blue banner in the top left corner says 'New'. The main title 'Applicability Wizard' is in large white font. Below it, the 'RegScan ONE' logo is shown in red and blue, with the tagline 'One World, One Platform' in white. The text 'Streamlined, Simplified, Legal Registers & Audit Protocols' is in white, and the website 'www.regscan.com' is at the bottom left.

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there is nowhere for the moisture to travel. The only spot that can corrode is the scribe line itself, which eliminates the possibility of the corrosion migrating.

“Unlike traditional methods, the corrosion resistant coatings for mild steel have a double layer of protection,” says Hobbs. “The tough, outside ceramic coating will not chip like paint and takes sandblasting to remove. The chemically bonded layer stops corrosion and will not allow corrosion promoters to spread.”

After good results, DC Metal Construction coated the inside of a clarifier tank at the Texas wastewater facility as well.

“In the five steel tanks we have sprayed with EonCoat in the past six years, we have had no corrosion issues, and no need for patching,” says Hobbs. “From the results we are getting, I believe the corrosion resistant coating can add decades of low-main-

migrate under the coating’s film from all sides of the gouge.

no longer react with the environment and corrode.

By contrast, the same damage to the ceramic coated substrate will not spread corrosion because the carbon steel’s surface is turned into an alloy of stable oxides. Once the steel’s surface is stable (the way noble metals like gold and silver are stable) it will

Visible in scanning electron microscope photography, EonCoat does not leave a gap between the steel and the coating because the bond is chemical rather than mechanical. Since there is no gap, even if moisture was to get through to the steel due to a gouge,

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tenance, usable life to carbon steel tanks and other structures.”

Since the corrosion resistant coating withstood the harsh wastewater tank immersion environment so well, Hobbs expects it to protect against corrosion just as effectively at oil tank farms, natural gas pipelines, petrochemical plants, and other industrial facilities.

For industrial facilities looking to reduce costs, there are additional advantages to CBPC coatings beyond corrosion resistance. This includes quick return to service that minimizes facility downtime, as well as no VOCs or HAPs, and a flame spread rating of zero which improves safety.



For corrosion protection projects using typical polymer paints such as polyurethanes or epoxies, the cure time may be days or weeks before the next coat of traditional ‘three part systems’ can be applied, depending on the product. The cure time is necessary to allow each coat to achieve its full properties, even though it may feel dry to the touch.

In contrast, a corrosion resistant coating for carbon steel utilizing the ceramic coating in a single coat requires almost no curing time. Return to service can be achieved in as little as one hour. This kind of speed in getting a facility producing again can potentially save hundreds of thousands of dollars per day in reduced downtime, for instance, in oil and gas applications.

“After appropriate tank preparation, we found that if we spray EonCoat in the morning the tank can be returned to service the same day because it applies in one coat and dries quickly,”

says Hobbs. “Quick return to service like this can be particularly important in production-focused industries like oil and gas.”

EonCoat consists of two, non-hazardous components that do not interact until applied by a plural spray system like those commonly used to apply polyurethane foam or polyurea coatings. Since the coating is inorganic, there are no VOCs, no HAPs and no odor. This means that the coating can be applied safely, even in confined spaces.

“Since the corrosion resistant coating has no VOCs, HAPs or odor we were able to spray during work hours, so the facility could stay in full production in adjacent areas while we coated the tanks,” says Hobbs. For any plant, facility, or structure with corrosion issues, it is well worth considering.”

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Educational Resources

Webinars

RegScan understands that staying in compliance is critical. But it doesn't have to be complicated. That is why we host webinars several times throughout the

year that help our clients tackle ever-evolving problems in the EHS industry. Prior topics covered included regulatory overviews, the Changing Role of the EHS Manager, and ISO 14001:2015. Such topics specifically address the newest industry standards while banishing compliance confusion, provide necessary tools to manage today's EHS challenges and reduce time and money spent on compliance activities.

Tutorials

RegScan also produces a number of helpful videos for our users. They answer most commonly asked questions on using the RegScan One interface. You may wish to visit our Informational & Tutorial Videos Page prior to submitting a ticket to see if your question can be answered with the assistance of one of these videos.

Conference

And now RegScan has gone beyond the computer screen to bring partners and clients their first ever Inaugural Regulatory Conference. Government officials, regulatory experts and executives from Fortune 1000 companies will gather on Capitol Hill in Washington D.C. on May 24th-25th, and be among the first to learn what the Environmental Protection Agency has planned for 2017 and beyond. And with RegScan, sometimes it is all fun and games. We're taking everyone out to the ballgame with box seats for the Washington Nationals as they host the National League Champion New York Mets.

Tracking Regulatory Change

Strikethrough

Strikethrough allows you to effortlessly see the amendment history of a regulation by comparing the current regulation with an earlier or future version. Changes are easily identified by color-coding. Anything that has been added will appear in green, while anything that has been deleted will appear in red.

My WatchList

My WatchList is a custom regulatory change management tool that allows you to monitor change at various levels of detail. It gives you quick access to only the information you need, while providing a clear record of what you have and haven't reviewed. My WatchList is the easiest way for a Web Services user to build a custom regulatory register, which RegScan will automatically export to your online environmental management system.

LookOut Email Alert

By defining specific keywords or phrases, LookOut allows you receive daily Email alerts on State or Federal regulatory changes.

RegScan Customer Support

As part of our ongoing commitment to improve the RegScan user experience, we use a ticketing system for customer support inquiries. This allows us to streamline requests and better serve you. Available 24/7, the ticketing system

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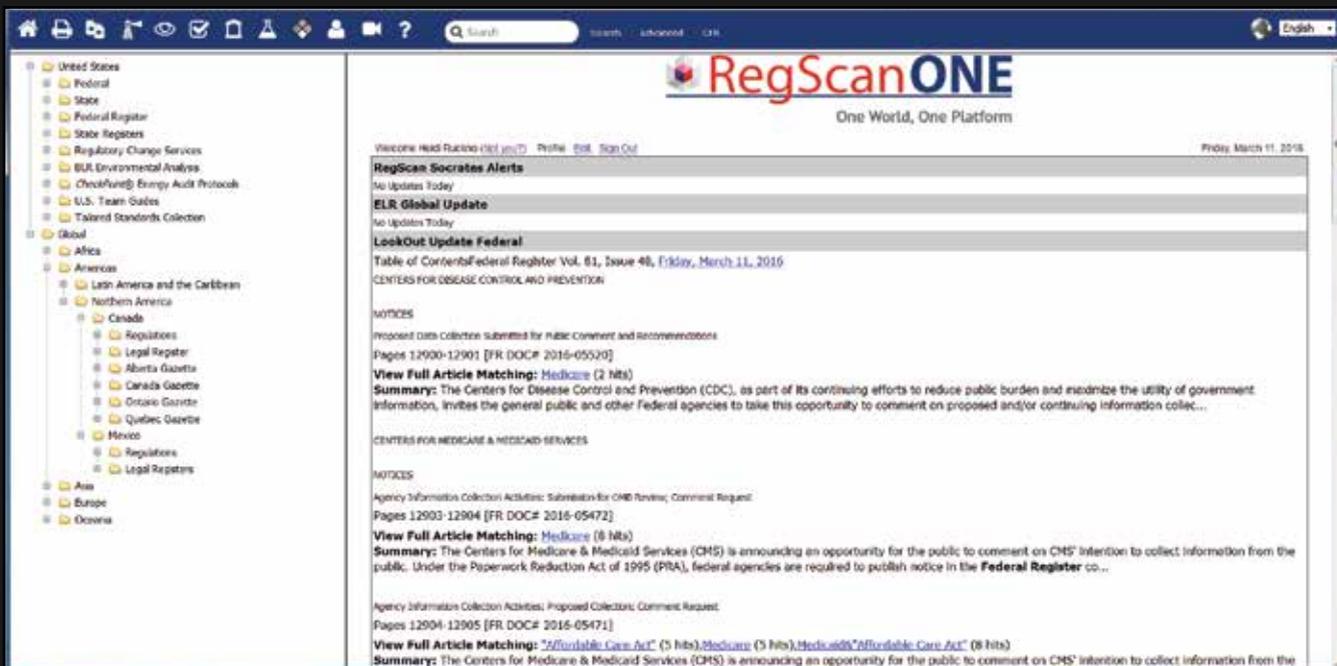
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New Range of FFB “Flexible Concept” Brake Motors on the IMfinity® Induction Motors Platform

Many sectors, including conveying, hoisting, transfer and indexing, require safe and increasingly flexible drive solutions. The brake motor, at the heart of the system, is a key element for reliability and safety, and must meet the most demanding requirements in industry.

Emerson Industrial Automation, a company well-known in the handling business, presents its new range of Leroy-Somer FFB brake motors developed around the “Flexible concept”, a high-performance design which is the product of over 50 years’ experience in industrial applications. This robust, innovative concept offers an extensive range of options associated with safety and variable speed as standard, thus making the FFB brake motor ideal for a multitude of applications.

Reliability and Robustness

With the latest generation IMfinity® induction motor from Emerson, the FFB brake motor is based on a tried and tested design, ensuring it can withstand the most severe stresses encountered in handling applications.

Its mechanical and electrical design is based on recognised expertise in industry, civil engineering and lifts, making it highly reliable and extremely robust.

Performance and Safety

Designed making full use of Emerson’s technological and industrial expertise, the FFB brake motor can be integrated in most fixed or variable speed applications quickly and easily. Its modular encoder adaptation principle makes it a versatile motor, suitable for the simplest to the most demanding variable speed applications.

The total control of the noise level, for both pick-up and engagement, as well as optimum control of application and release, make the FFB brake motor one of the best of its generation.

This new range, sized for dynamic braking, is based on failsafe operation. The industrial control of its performance (running-in of all the friction parts as standard) and a wide range of braking function supervision accessories (opening, closing and wear sensor, etc.), significantly increase the safety of the transmission chain.

International use and energy efficiency

The multi-voltage, multi-frequency construction of the FFB brake motor, covering 80% of the world’s power supplies, makes it ideal for use in many countries. Just one product reference is all that is needed, in place of the previous four or five.

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motors offer various different efficiency levels: non-IE, IE2 and IE3. Ideal for variable speed operation, they comply with requirements for improved energy efficiency in motorised industrial applications.

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The flexible architecture of the FFB brake motor, together with the organization of Emerson production and distribution facilities, make it possible to meet customers’ delivery requirements precisely.

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RegScan Inc. is pleased to announce that Mr. Edward Messina, the EPA Director of Monitoring Assistance and Media Programs Division, will be the keynote speaker at the inaugural RegScan Regulatory Conference (presenting sponsor, Enablon) on May 24-25 at The Liaison Capitol Hill hotel in Washington D.C.

Mr. Messina will discuss current and future regulatory enforcement initiatives – and where the agency plans to focus its efforts in over the next three years. Attendees will get the inside track on which enforcement initiatives the Environmental Protection Agency plans to prioritize between 2017 and 2019.

The exclusive conference is a unique and cost-effective opportunity for regulatory experts, government officials, and executives from Fortune 1000 companies to come together to discuss the most pressing regulatory and climate change issues facing our world today. Sessions on the Foreign Corrupt Practices Act, risk management and security will also be conducted. Additionally, attendees will receive box seats to a Major League Baseball game on May 24, when the Washington Nationals will host the

National League Champion New York Mets.

Space is extremely limited, so those interested in attending should register today at www.regscan.com/rc to take advantage of our Early Bird Special. Additionally, The Liaison Capitol Hill hotel is offering a discounted block of rooms to conference attendees.

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Cincinnati Goes Electric with GOFORM

New 40-ton electric press brake is portable, versatile and has the durability that built Cincinnati's reputation for dependable, accurate metal forming equipment.



Cincinnati Incorporated (CI) is bringing a new energy to its line of press brakes with the all-electric GOFORM. This versatile new 40-ton press brake is perfect for small parts up to 0.25-in. thick and less than 50 lbs., but also has a 10-in. stroke and 17-in. open height for jobs requiring tall tools and adapters. A six-axis backgagge is ideal for basic and complex part shapes. The GOFORM has a heavy-duty, stress-relieved frame ready for multi-shift operation, and is designed for full tonnage with minimal deflection. The drive system uses satellite roller screw actuators that reduce heat and wear for a long life of heavy use.

"We designed the GOFORM to pack a punch in a small package," said Todd Kirchoff, Product Manager – Machine Tool Products for Cincinnati Incorporated. "The machine has a small footprint, can be easily moved with a forklift or overhead crane and operates without being anchored to the floor, so it can adapt to changing plant layouts and workflows."

GOFORM can be configured to use the three major tooling styles – American, WT/New Standard and European – and Express Clamp systems from Wilson Tool provide fast setup, self-seating and low maintenance with leak-free mechanical clamps. The Express Die Holder uses a full-length clamp, rather than multiple set screws, allowing segmented dies to be used anywhere along the length of the bed. The European 1V and 2V die holders can be used directly on the bed, without filler blocks.

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Carbide-Roll Burnishing Tools by Elliott Tool Technology produce a mirror-like surface finish while eliminating secondary operations, machining set-ups, and operator labor and cost. These cost-effective, easy-to-use carbide rolls from Monaghan Tooling Group improve surface irregularities and tool marks, producing optimum surface finishes of 4-20 microinch (0.1 to 0.5µm). They are ideal for both CNC turning centers and manual lathes, for OD and ID/OD burnishing applications. This proven technique can eliminate secondary processes such as grinding, honing and polishing by automating those processes in the primary CNC machine. Doing so saves set-up and processing time and labor costs and also enhances machinery utilization and shop floor productivity. For additional information, visit www.carbiderollburnishing.com.

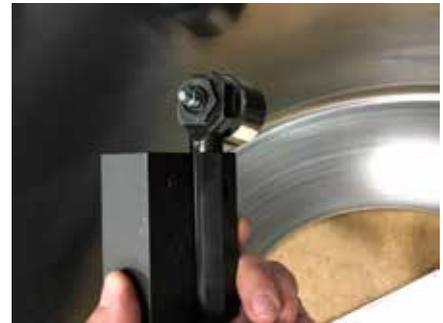
Carbide rolls can be reconditioned several times, yielding economical tool life. Shank sizes are available from 1.5" to 2.0" in diameter, or 40 mm to 50 mm, to process overall length of 9.5" (241.3 mm) to 18" (457.2 mm). Roll radius from 0.032" (0.787 mm) to 0.093" (2.36 mm) are available.

Spherical surface burnish tools, available in either 1" or 25 mm square shank size, with a .125" radius, are excellent for burnishing spherical and contoured surfaces to finishes as low as 2 to 8 Ra microinch. Other sizes and spherical designs available on request.

Carbide roll burnishing is ideal for a wide variety of parts and ductile metals under Rc40, including steel, stainless steel, aluminum and cast iron. A Concord, NH job shop recently experienced the benefits of this tooling in a heavy machining horizontal table lathe application. An exceptional finish was needed on the ID of a roughly 6' diameter ring made of a stainless grade with an average hardness of Rc33. The ID had both parallel and tapered walls. Starting with a pre-burnished surface finish of 120 Ra microinch, they were able to obtain a single digit surface finish in a single pass at 450SFM and 0.035 IPR. This eliminated many hours of fine boring and hand polishing. "I would estimate we are machining these parts in 1/10th the time we were previous: from 40 hours to 4 hours," said the company President, "We're very happy with it!"

Elliott carbide roll tools increase the surface hardness through the cold working process and compressive forces, and increase metal's resistance to fatigue and failure at stress points while producing a dense and uniform surface.

The burnishing process has been refined and improved for over 100 years and has a proven track record of success. Monaghan Tooling Group and Elliott Tool Technologies continue this tradition by supplying the industry's highest quality burnishing tools.



www.MonaghanTooling.com •

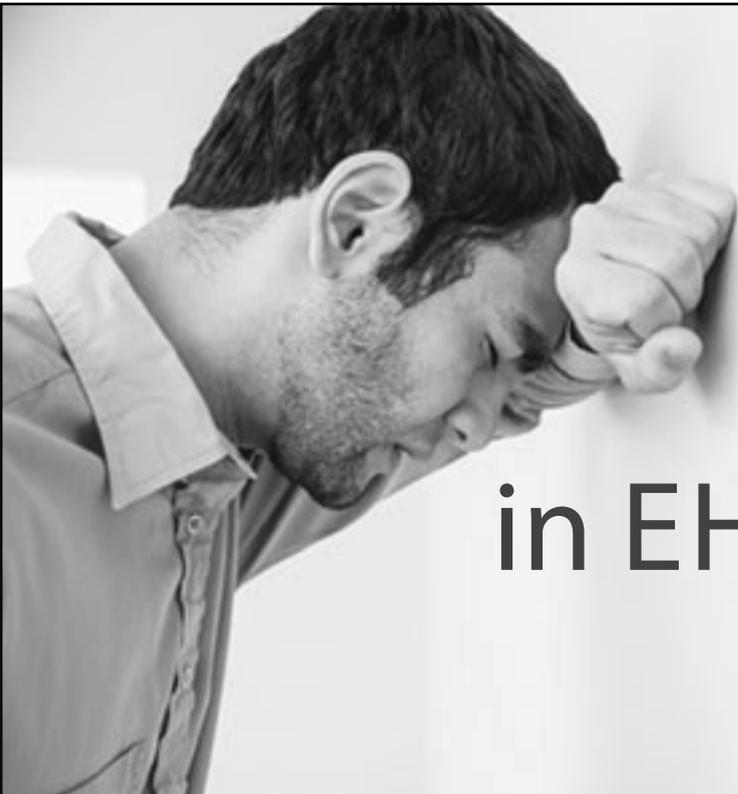


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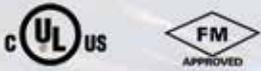
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