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## Mobile Dust Suppression Design Features Tier IV Final Gen Set

---

A global innovator in dust and odor control technology has updated its family of self-powered dust suppression equipment with Tier IV Final-compliant generators, ensuring compliance in all 50 states. BossTek made the announcement with the debut of the new DustBoss® DB-60 Fusion™, a field-proven suppression system driven by a high-reliability 25 HP electric motor and paired with a gen set powered by a heavy-duty 4-cycle indirect injection diesel engine. Designed, engineered and assembled in the USA, the generator features a dual-containment fuel cell, heavy gauge lockable enclosure and oversized brushless alternator for easy starting.

Permanently mounted on a rugged road-worthy trailer, the company's Fusion lineup is proving to be a popular and effective means of delivering versatile, mobile dust suppression technology to sites that lack a readily available power source. The company expects to unveil two other Fusion models in early 2019, giving customers the ability to select the size and coverage range needed to best suit their operations.

The new generator series is designed with sound attenuation for excellent noise reduction and a multi-voltage switch with utility power outlet in all voltage modes. The digital engine / generator controller is equipped with single button stop / start and an 80-gallon fuel capacity, giving the units a run time of more than 24 hours at a prime rating of 45 kVa. Like its previous Fusion systems, BossTek warrants the DB-60 Fusion for three years

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#### What Tier IV Means

Tier 4 refers to the latest emission milestone established by the U.S. Environmental Protection Agency (EPA) and the California Air Resources Board (CARB). The regulations apply to new engines found in off-road equipment, including construction, mining and agricultural equipment, as well as marine vessels, locomotives and stationary engines used in industrial and power generation applications.

Tier IV-compliant engines are designed to significantly reduce emissions of particulate matter (PM) and oxides of nitrogen (NOx) to near zero levels. Relative to previous emissions standards, Tier IV-compliant engines reduce emissions by over 95 percent for most agricultural and construction equipment and just

over 86 percent for much larger applications such as locomotives and marine vessels. The Tier 4 emission standards are roughly similar to emission reduction requirements for engines that power heavy-duty trucks.

#### How It Works

The DB-60 Fusion drives pressurized water through a circular stainless steel manifold with 30 atomizing spray nozzles, then launches millions of tiny droplets with a powerful fan that produces 30,000 CFM (849.50 CMM) of air flow. Atomized mist droplets of 50 to 200 microns in size are thrown out in a 200 foot (60 meter) cone at an adjustable 0 to 50° elevation angle, capturing airborne dust particles and dragging them to the ground. Unlike industrial sprinklers used for the same purpose, which can require hundreds of gallons of water per minute, the DB-60 only uses about 23 GPM (87 LPM) to help avoid pooling or runoff.



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A touch screen panel for controlling the dust suppression unit is encased in a NEMA 3R cabinet, allowing operators to control oscillation, booster pump, fan and water. The cabinet is constructed for outdoor use, designed to provide protection against solid foreign objects (such as dirt), air (dust, emissions), water (rain, sleet, snow) and ice formation. The system provides valuable mobility and versatility in one of the most popular and effective dust suppression designs on the market, able to deliver up to 62,800 square feet (5,834 square meters) of coverage.

“Maintaining air quality is essential for communities near a demolition project, mining operation or other bulk material handling activities, but even in places with little infrastructure, dust can choke worksites and foul equipment,” said Project Engineer Jason Lesch. “We engineered the Fusion to be highly mobile, with its own power source, so it can be easily towed anywhere on a job site.”

Equipped with an in-line 75 mesh, 200 micron filter, the unit can be specified with special filtration to accommodate non-potable water sources. In addition, the new design can be optimized with a Variable Frequency Drive (VFD) to precisely adjust fan speed. An optional dosing pump is available for precise metering of additives to enhance particle control even further.

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## New SV-30 Cylinder Hone Features Automatic Step-and-Repeat Capability for In-Line and V-Block Engine Configurations

Six models available for both manual and automatic operations, handle bore diameters from 0.75 to 8.0 in., and all are covered by Sunnen's new 3-year warranty program.

The new Sunnen SV-30 honing series is the next generation in the line of legendary Cylinder King® machines. True to its heritage, it achieves expert results on engine cylinder blocks, cylinder liners and other engine parts that require honing. Six standard models include four step-and-repeat capability versions allowing automatic bore-to-bore processing for in-line and V-block configurations, reducing setup time and improving bore quality. In addition, two models are available with a manual X-axis. The SV-30's cylinder diameter range is 0.75 to 8.0 in. (19 to 200 mm) depending on the tooling option, and the new Sunnen GH-LF tooling is required for automatic step-and-repeat operation.



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With six new models in the series, the SV-30 can be tailored to meet the needs of manufacturers, job shops and automotive performance and rebuild shops. It includes a new PC control with simplified menus and storage for 1000+ setups for quick and easy changeovers. When used with the wide range of Sunnen-made abrasives, tooling and coolants, the U.S.-built SV-30 produces ideal bore roundness and surface finish in a variety of part types and materials at an affordable price.

The new SV-30 also includes spindle reversal, standard bore oversize setup (.010"/.020"/.030") and automatic tool protection at the top and bottom of the bore, which verifies an unobstructed stroke before starting a cycle. Models include either a variable-speed 6 hp (4.5 kW) servo or 5.5 hp (4.1-kW) induction spindle motor, producing speeds from 50-600 rpm. A 3.4 hp (2.5 kW) servo ball screw system produces up to 100 true vertical strokes per minute with a stroke travel of up to 27.75" (705 mm). The linear stroking drive maintains concentricity with the bore throughout the full stroke to produce a consistent diameter from top to bottom. A large, 48" x 30" (1219 mm x 760 mm) work envelope allows versatility in processing larger parts.

The new spindle reversal feature duplicates the capabilities of machines used by automotive OEMs. "Reversal can be used anytime in the process, but is especially helpful during the finishing strokes," said Phil Hanna, Sunnen Product Manager. "Reversal helps create a slightly rounder bore and aids in achieving the desired surface finish. It causes the honing stones to take out any less-than-round shape left after initial passes, while shaping up and dressing the stones themselves. Reversing the spindle also aids in removing folded-over metal and cleaning debris out of the valleys of the surface finish."

The proven Phoenix industrial PC control ensures automatic, consistent bore-to-bore geometry and finish, without constant adjustment by the operator. The 15-inch (381 mm) color touchscreen with intuitive controls provides a real-time display of the full-bore cross section during the process. The control can store 1000+ part

setup programs, and a USB port allows offline setup file storage. The control's programmable Auto-Dwell feature automatically corrects taper anywhere in the bore for unattended operation, while two-stage honing tools with diamond or CBN abrasives can complete roughing and finishing operations in one pass for high productivity.

Left/right positioning of the honing column on its 32-inch X-axis (813 mm) is easily accomplished with a servomotor or a manual hand wheel located immediately below the operator station (model dependent). The machine is equipped with a 55-gallon (208-liter) internal coolant system with two standard steel canister cartridge filters, heavy-duty pump, and filter status gauge.

In addition to the GH-LF tooling (required for automatic step and repeat operation), the SV-30 is compatible with all of Sunnen's current large diameter tooling. This includes diamond abrasive hone heads and brushes, GHSS single-stage hone heads with CBN or diamond abrasives and brushes, and GHTS hone heads for two-stage honing with CBN or diamond abrasives.

The SV-30 is equipped with new standard LED lighting in the work envelope. It also has the latest standard safety features including light curtain, interlocked front door, stainless guarding around the work envelope, and safety PLC which limits setup speeds in all axes. Options include a T-slot base (for custom fixturing), heavy-duty manual rollover cradle for engine blocks, and a full-feature automation interface.

The SV-30 is backed by Sunnen's 3-year parts and labor warranty and is sold and serviced as part of a total solution that includes Sunnen-made abrasives, tooling, bore gauges, and coolants.

Additional information on the SV-30 vertical honing machine is available from Sunnen Products Company, 7910 Manchester Rd., St. Louis, MO 63143. Tel: 1-800-325-3670; fax: 314-781-2268 or email [sales@sunnen.com](mailto:sales@sunnen.com).

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## Combating Industrial Corrosion in Harsh Winter Conditions

Innovative Chemically Bonded Phosphate Ceramic coatings enable reliable corrosion protection and application in below freezing temperatures

Industrial facilities can benefit from scheduling corrosion protection of their carbon steel structures and equipment during seasonal slowdowns, when such projects have a minimal impact on output.

However, too often such “scheduling windows” occur during periods of cold, harsh weather, when typical coatings cannot easily be applied.

“For application in low temperatures, you traditionally have to build a container or a tent around the equipment you are corrosion coating and heat it with an electric or propane heater,” says Bryan Stallings, a project manager at Sam Estes Painting Company, an industrial painting contractor based in Owensboro, KY. “Failing that, the coating won’t set and the cold weather will shock it, so it will peel off or crack.”

Fortunately, to extend the service life of industrial facilities with carbon steel assets, facility managers are turning to a new category of tough, Chemically Bonded Phosphate Ceramic (CBPC) coatings that can stop corrosion, ease application, and reduce production downtime even in below freezing temperatures.

### Rapid Winter Corrosion Protection

When an aluminum recycling plant in Kentucky recently required a lengthy conveyor belt corrosion coated in four sections, one challenge was coating it in winter weather. The conveyor belt was an integral part of the recycling plant’s process of converting aluminum scrap into reusable aluminum.

“Without heated containment, you might wait indefinitely for the right weather conditions to proceed,” says Stallings. “Some traditional coatings stop curing if it’s not 40 °F or above, so that’s a big problem. For proper application, you usually have to keep coatings several degrees above dew point for hours or days.”

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Another challenge involved the way traditional polymer paints and rubber type coatings have 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 the corrosion promoters – that allows the corrosion to spread under the coating.

“With typical coatings, once they chip or break off, corrosion can spread under the coating so you might not be aware of it,” says Stallings. “That happens a lot. That’s when steel equipment or structures get eaten away.”

To address such issues, the aluminum recycling plant and Stallings turned to EonCoat, a spray applied inorganic coating from the Raleigh, North Carolina based company of the same name. EonCoat represents a new category of rugged, Chemically Bonded Phosphate Ceramics (CBPCs) with unique properties.

In contrast to traditional polymer coatings that sit on top of the substrate, the corrosion resistant CBPC 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.

Although traditional polymer coatings mechanically bond to substrates that have been extensively prepared, if gouged, moisture and oxygen will migrate under the coating’s film from all sides of the gouge.

By contrast, the same damage to the ceramic-coated substrate will not spread corrosion in industrial infrastructure 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 no longer react with the environment and cannot corrode.

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, there is nowhere for the moisture to travel, which effectively stops corrosion in industrial applications.

The corrosion barrier is also covered by a ceramic layer

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For such durable corrosion protection, Sam Estes Painting Company successfully sprayed EonCoat's cold weather formulation on the aluminum recycling plant's conveyor belt sections. This was done at a below freezing temperature.

"We were able to spray at 30 °F without needing to use a containment tent or wait for warmer conditions," says Stallings.

Industrial operation managers or corrosion engineers looking to reduce costs are also finding additional advantages to CBPC coatings like EonCoat beyond corrosion resistance.

Such coatings consist of two non-hazardous components that do not interact until applied by a standard industrial plural spray system like those commonly used to apply polyurethane foam or polyurea coatings. Since CBPC coatings are inorganic and non-toxic, there are no VOCs, no HAPs and no odor. This means the water soluble, non-flammable coatings can be applied safely even in confined spaces, or when adjacent parts of a plant continue to operate.

One of the greatest benefits, however, is quick return to service that minimizes facility downtime. The time saved on anti-corrosion coating projects comes both from simplified surface preparation and expedited curing time. With a typical industrial coating, near white metal blast cleaning (NACE 2 / SSPC-SP 10) is required to prepare the surface. But with the ceramic coating, only a NACE 3 / SSPC-SP 6 commercial blast cleaning is typically necessary.

With traditional coatings, extensive surface preparation is required and done a little at a time to avoid surface oxidation, commonly known as 'flash rust', which can require re-blasting.

However, with the CBPC coating, the flash rust is no issue. There is no need to 'hold the blast'. The reason for this unique CBPC characteristic is due to the presence of iron in the rust, which helps to create the magnesium iron phosphate alloy layer. It is this alloy layer that allows CBPCs to so effectively protect carbon steel from corrosion.

"The preparation was easy," says Stallings. "We were able to blast it once and leave the tightly adhered rust in place. It rained once, but we didn't have to re-blast it so it helped quite a bit."

For traditional 'three-part system' coatings utilizing polyurethanes or epoxies, the cure time may also be days or weeks before the next coat can be applied, depending on the product.

In contrast, a corrosion resistant coating for carbon steel, utilizing the ceramic coating in a single coat, requires almost no curing time.

Stallings, in fact, was able to spray the aluminum plant conveyor sections with a 331 tip to the recommended thickness of 25 mils in a single application with no runs. A half hour after application, the coating was hard enough to move the conveyor sections back into place.

"Altogether, we saved at least a week of application time with the ceramic coating," concludes Stallings. "Without containment and with only minimal surface preparation, we were able to spray an effective single coat instead of the usual three coats. This is the way to go for industrial plant managers needing reliable corrosion coating protection applied in cold weather."

For more information, call 754.222.4919; visit [www.eoncoat.com](http://www.eoncoat.com); or write to EonCoat, LLC at 551 Pylon Drive, Unit D, Raleigh, NC 27606.

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## Amada Miyachi America Announces MM-400A Desktop Resistance Weld Checker

Ideal for monitoring and managing key welding variables in process development and production environments

Amada Miyachi America., a leading manufacturer of resistance welding, laser welding, marking, cutting, and micromachining equipment and systems, announces the new MM-400A desktop resistance weld checker. With the MM-400A, operators can easily monitor and manage key welding variables that result in changes in weld heat, including current, voltage, time, force and displacement. The compact unit supports AC, DC inverter, AC inverter, transistor and capacitive discharge resistance welding technologies.

The MM-400A is ideal for use in process development, where it can be used to correlate waveform and numeric data with process results and provide detailed weld data for process optimization and validation. In a production environment, it reduces scrap by detecting drifts in the weld process and alerting operators before process failure. The MM-400A also reduces the frequency of destructive testing and provides an independent way of monitoring the welding power supply.

The MM-400A features a simple and intuitive user interface and color touch panel display. An envelope function allows the operator to set upper and lower segmented or continuous limits around the entire waveform. The unique seam welding mode monitors AC current and voltage or DC voltage for up to 5 minutes. The unit provides ISO17657-compliant measurement for current (when used with available ISO-compliant toroidal coil) and offers Ethernet (TCP/IP), and RS-232/485 communication. Pre-weld displacement measures workpiece thickness prior to welding. Multi-language support includes English, Spanish, Japanese, Chinese, Korean, German, and French.

Available accessories include shunt resistor force sensors, a built-in force sensor, displacement sensors, and weld thru sensors that offer simultaneous measurement of applied force.

For more information, visit the Amada Miyachi America website at [www.amadamiyachi.com](http://www.amadamiyachi.com).

### About AMADA MIYACHI AMERICA

Since 1948, Amada Miyachi America, Inc. has worked to achieve one goal: to solve customer's manufacturing challenges. Knowing there is no one solution that fits all, the company strives to provide customers with innovative and reliable manufacturing technology solutions in an effort

to be their single source provider. Amada Miyachi America manufactures equipment and systems for resistance welding, laser welding, laser marking, laser cutting, hermetic sealing and hot bar reflow soldering and bonding. The company serves a wide range of markets including medical devices, battery, aerospace, automotive and electronic components. Amada Miyachi America is an ISO9001 certified company. Contact Amada Miyachi America at [info@amadamiyachi.com](mailto:info@amadamiyachi.com). Learn more about the company's products and services at [www.amadamiyachi.com](http://www.amadamiyachi.com).

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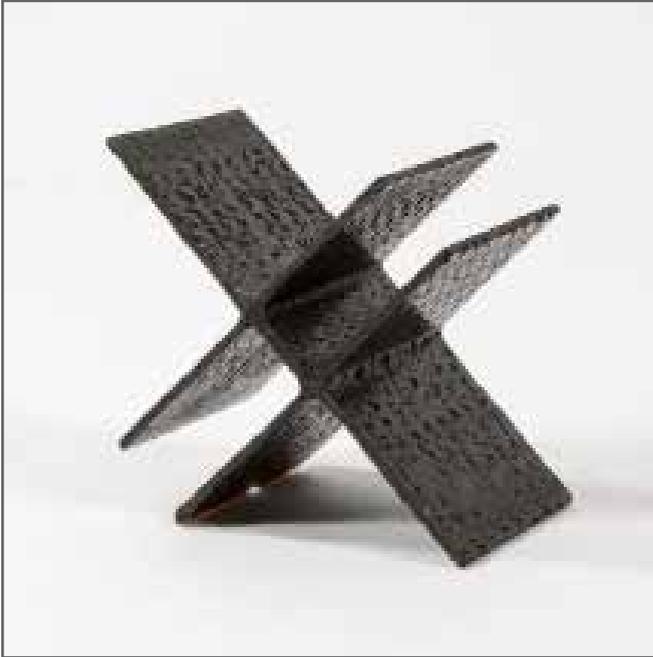


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# BallyRibbonMillsAnnouncesFilmInfusion Capabilities for 3-D Woven Joints



Unique capability saves customer processing steps

BRM uses the film infusion process to infuse a variety of resins to these complex 3-D woven shapes. This ability allows BRM to ship its 3-D woven joints as pre-made assemblies, saving customers processing steps that require time, work, and specialized machinery. BRM's film infusion capability also allows them to control more steps of the 3-D woven joint assembly manufacturing process, ensuring consistent quality control.

For more information about Bally Ribbon Mills, please visit [www.ballyribbon.com](http://www.ballyribbon.com).

## About Bally Ribbon Mills

Bally Ribbon Mills (BRM) designs, develops, and manufactures highly specialized engineered woven webbing, tapes, specialty fabrics, woven preforms, and two dimensional and three dimensional structural fabrics. With more than 95 years of textile manufacturing experience, BRM has earned a reputation for meeting new advanced design challenges. Working in aerospace, defense, medical, safety, automotive, commercial, and industrial applications, BRM offers ingenuity, technical know-how, extensive weaving capabilities, and rigorous quality assurance systems. For more information, visit [www.ballyribbon.com](http://www.ballyribbon.com) or call 610-845-2211.

[www.ballyribbon.com](http://www.ballyribbon.com) •

Bally Ribbon Mills (BRM), an industry leader in the design, development, and manufacture of highly specialized engineered woven fabrics, announces its film infusion capabilities for 3-D woven joints. In the film infusion process, a frozen sheet or film of resin is infused onto the custom 3-D woven joint, saving customers the trouble of infusing the resin themselves upon delivery of the BRM-made joint.

BRM has perfected the science and art of 3-D continuous weaving. Their industry-leading research, design, and fabrication expertise enables them to solve specific challenges in innovative ways. BRM's Advanced Products Group has developed technologies to fabricate 3-D woven structures such as "Pi -  $\pi$ ," double "T," "H," and other complex net shapes. These complex woven structures are used primarily in aerospace applications, often in airframe structural components and subassemblies including stiffeners and joints. They are custom made to fit the application.



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# Columbia Marking Tools Introduces New Features on Popular Mite-E-Mark™ Air Impact Marker



Columbia Marking Tools now many new features on the popular Mite-E-Mark™ Air Impact Marker. Additional features include: additional stroke length, integrated position sensors, and a low maintenance non-lube feature. This air impact marker is commonly used for economically marking lot codes, acceptance marks, or machine ID codes on metal and plastic parts. They may also be used in staking, seating or assembly operations.

The Mite-E-Mark™ is an extremely compact marking tool. It's smallest configuration is only 3" long, and has 1" of approach stroke from the retracted position to the point of part marking. The Mite-E-Mark™ now offers an additional option with longer approach stroke. This added feature also has more force. The 2" approach stroke model offers 2200 lbs of impact force at 80 psi.

As systems become more and more automated, Columbia Marking Tools has added more updated technology to the simple air impact marker designs. One of the most recent added options to the Mite-E-Mark™ is the integrated position sensor. This electronic indicator is installed internally and is able to detect when the marker is in the retract position. This option is a favorite among designers of "lights out", or fully automated applications.

A new cost saving option is also now available for the Mite-E-Mark™. The non-lube version of this air impact marker has permanent lubrication and improved seals. This combination provides a system that no longer requires constant maintenance and additional lubrication.

The Mite-E-Mark™ is one of the many marking machines that Columbia Marking Tools manufactures. Please see [www.columbiamt.com](http://www.columbiamt.com) for the complete product line. Also displayed on the web are the operation guides and drawings to assist with installation and use of these systems.

[www.columbiamt.com](http://www.columbiamt.com) •

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The PIRANHA LITES® are a simple safety accessory that can easily attach to almost any scissor or boom lift. The lights are a great way to highlight the surrounding perimeter of a scissor or boom lift that is in operation, helping the operator and the workers on the ground stay safe.

- Kit includes a set of 4 lights and wiring harness
- Lights are durable and built to withstand the harsh job site environments
- Installs using clamps. No drilling required



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# New Products from TS/SSG



## **WS-05 Mobile Wheel Workstation**

The WS-05 Mobile Work Wheel Station designed for faster and more efficient commercial truck tire and wheel changing operations.

- Supports the weight of an impact wrench
- WS-05 moves in all directions and locks the impact wrench into a horizontal plane to prevent rounding of wheel nuts
- Provides significant reduction in impact wrench damage
- Relieves operator fatigue and helps reduce comp claims by preventing back injury.

Impact Wrench Not included.

## **350B Back Buddy II™**

The 350B Back Buddy II™ will make brake jobs easier and more profitable. This versatile tool was designed to prevent injuries from awkward lifting and keep workers' comp rates down. The Back Buddy II™ rolls under and bolts onto heavy drum and hub assembly, then handily rolls the assembly out and lays it over for servicing. Re-assembly is quick and precise because the Back Buddy II™ angles for perfect hub alignment, eliminating seal damage and costly fixes. The Back Buddy II™ handles all hub and drum assemblies with Universal Receiver and Adapter Sets. A simple change of adapters transforms the tool in seconds from inboard to outboard application.

Adapters 6069 and 6073 10-hole inboard and outboard application are included. Other wheel adapters sold separately.



## **6346 Complete PakPress®**

The 6346 Complete PakPress® Kit is a must if you're in the Fleet Maintenance industry. Don't be without this tool that brings the power of a 10-ton shop press right to the truck. Most impressive, the PakPress® lets you remove and install studs without removing the hub. A two-hour job is done in twenty minutes, with no risk of damaging seals or bearings.

The 6346 Complete PakPress® Kit includes:

- 1-PPK PakPress®
- 6247 PakPress® Cart
- Adapters ( 6261,6235, 6236, 6361)

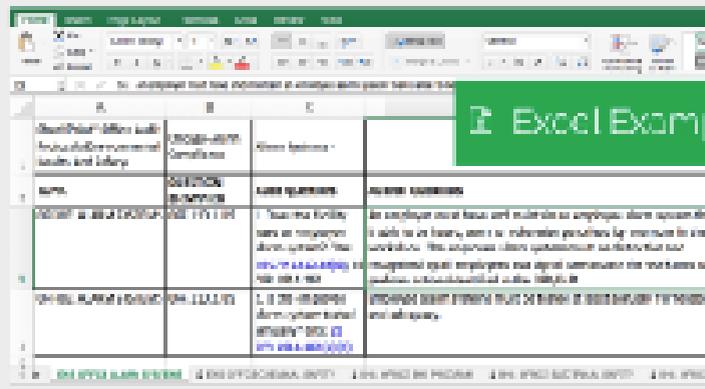
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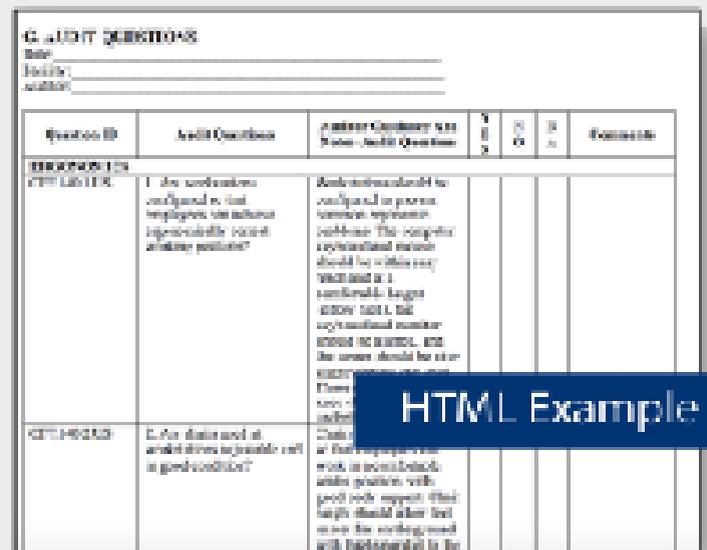
Too **many** sites? Too **hard** to coordinate? Too **costly** to send auditors?  
Having **difficulty comparing results** across the locations you have inspected?

If you said **yes** to any of these questions, how can you be sure that those sites are in compliance with your Global EHS compliance and risk programs?



**Excel Example**

Audit Questions	Audit Responses	Audit Questions	Audit Responses
1. Are all employees required to wear safety glasses when operating machinery?	Yes, all employees are required to wear safety glasses when operating machinery.	2. Are all employees required to wear safety glasses when operating machinery?	Yes, all employees are required to wear safety glasses when operating machinery.



**HTML Example**

Question ID	Audit Question	Audit Response	Y	N	NA	Comments
Q000001	1. Are all employees required to wear safety glasses when operating machinery?	Yes, all employees are required to wear safety glasses when operating machinery.				
Q000002	2. Are all employees required to wear safety glasses when operating machinery?	Yes, all employees are required to wear safety glasses when operating machinery.				

**Learn More by Visiting**

[www.regscan.com/products/icomply](http://www.regscan.com/products/icomply)

**TI-95 Tire Inspector**

The TI-95 Tire Inspector is designed to inspect non mounted passenger car and light truck tires from 13" to 24.5". The TI-95 Tire Inspector allows the operator to inspect tires for sidewall, tread and bead leakage on non mounted tires. Quick and easy inspection is accomplished by using an expandable hub and expandable rim assemblies. The mounted tire and hub assembly rotate easily for quick and easy inspection and the convenient control panel is designed for ease of operation. The TI-95 has a rigid base and stand that supports all available rim sizes mounted on the hub assembly. A standard 1/4", 90 PSI air line operates the unit and no electricity is required. We recommend the use of a good quality dual stage compressor for optimum results.

- Includes the standard 14" – 17" expandable rim assembly
- Other expandable rims are available to accommodate larger tire sizes

**CH-10 Cheetah Bead Seater**

The CH-10 Cheetah® Bead Seater will seat the bead on all truck and small tractor tires. A 2" tank opening allows use of the optional Magnum II barrel giving added "spread" of the discharge. This extends the power of the CH-10 for seating even the most difficult beads on larger diameter wheels. The CH-10 Cheetah® Bead Seater has a 10 gallon ASME certified steel tank.

Also available in aluminum.

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REQUEST CATALOG M85

# Avoid Non Compliant Payroll Errors - Avoid Stiff Fines - Jail Time

By John Trydaler

Change is consistent in the construction industry.

Payroll changes happen almost hourly on many construction sites because working conditions change.

An employee may be asked to work in his secondary classification because the site is short of a key employee due to weather, family emergency, sudden illness, or a key piece of equipment breaks down.

The payroll system must be malleable to cope with a wide variety of reporting differences.

Daily payroll changes for 10's or hundreds of workers is a daunting task.

A payroll change concerns the worker, their supervisor, an admin and a payroll administrator. Ultimately, the construction company ownership can feel the painful result of a payroll error.

That "innocent" payroll error is usually an illegal compliance issue.

The Davis - Bacon Act of 1931 has 30+ compliance issues that must be adhered to for every check of every employee.

Non-compliance can lead to a hefty fine or jail time.

What can the payroll administrator of a construction company do to easily handle daily changes in payroll?

The Compliant Client system by eMars interface captures the "dailies" from a construction site, then submits these changes directly into our certified payrolls. Compliant Client then matches the hours, electronically, submitted on the certified payroll to the actual hours on the construction site. This process replaces the manual task of making

sure the certified payroll hours equal the manually collected hours recorded by the foreman.

Human error is eliminated.

The foreman can concentrate efforts on the primary tasks, not payroll issues.

This process is referred to as: On Site Employee Verification.

"Time is money" is the old adage that you've probably said or heard hundreds of times in your life.

It's true.

Spending time in non-income areas of your business is like throwing money in the trash.

But, if you're the CFO or the payroll accountant, you have to pay strict attention to your payroll, every week of the year. Using time to make sure every employee gets the correct pay is critically important.

Time well spent, right?

Is your organization spending three to 10 hours or more every week making sure that the payroll is correct and compliant? Could that time and energy be better spent in other areas of your business?

But, you have to focus your time on the weekly payroll. Right?

Is there a possible alternative to spending hour upon hour making all of your checks compliant and entering "correct" numbers and information into your payroll database? Yes.

Compliant Client by eMars makes running your payroll an eight-minute, worry-free task. eMars and Compliant Client take care of all the compliance issues, guidelines and mandates of the

Davis-Bacon and Related Acts and many state variations.

The Davis-Bacon Act, passed by congress in 1931, requires private contractors to pay "prevailing wages" to employees on all federally funded construction projects valued more than \$2,000. Stiff fines, debarment and jail time can result if payroll checks are not in compliance with this act. There are 30 compliance regulations that must be adhered to for every check. Thirty issues for each check.

So, if you have 100 employees, that's 3,000 possible errors every week. If you have 500 employees, that's 15,000 possible errors that must not happen. The time involved to keep watch over 30 compliance issues for 100 employees is staggering. Does your organization have time to personally watch over every check and every compliance issue?

The downsides to not investing the time on this issue are:

- Angry employees
- Large fines
- Jail time
- Going out of business

Out-of-compliance payroll difficulties don't go away by saying, "I'm sorry, I didn't know and we'll fix this problem real soon."

How many checks does your organization handle every week? Can you catch every error, every week? Doing payroll by hand every week is time consuming, costly and risky.

Many of these financial executives do not protect their company and its top executives from submitting erroneous non-compliant, illegal payrolls. Based on a study of 100,000 payrolls, at least

20 percent of construction company payrolls will contain one or more errors, when audits of these payrolls rely on human review. Here's how to reduce your compliance risk and reduce time managing your weekly payroll by 80 percent.

#### Worry Free, Time Savings

The Compliant Client system by eMars is your answer for worry-free, time-saving compliant payroll. The system is easy to install and use. It provides immediate, concurrent, real-time visibility of all payroll records of the sub, prime, plus – the owner agency. All screens are printable. Every submitted payroll is audited, online and in real time, against the wage determination and all 30 causes that are in support of Davis-Bacon and Related Acts. The results of these comparisons to the provisions set forth in the act are immediately reported, allowing corrections to be made promptly.

A typical payroll is prepared in less than eight minutes. Compliant Client requires a PC and less than 30 minutes

of training. Complete implementation takes less than one day after loading the wage determination. Compared to paper-and-pencil preparation, the eMars system represents an 80 percent productivity improvement, plus instant recognition of payroll errors that prompt the user how to solve the problems and guarantee compliance.

The system was designed with considerable input from the Department of Labor, agencies and contractors. Compliant Client's more than 15,000 clients have not had any random Department of Labor audits for the past three years. The Department of Labor's Chief of Compliance stated, "your system already has completed the first level of an audit." Compliant Client also encrypts at-rest data, giving another layer of security for this sensitive data, disallowing use of the information.

What happens to typical at-rest data in most computers? For many organizations, private at-rest data is only protected by the user name and code that is used to get into the computer. "The primary purpose of encryption is

to protect the confidentiality of digital data stored on computer systems or transmitted via the internet or other computer networks," says Rick Paul of ITS Risk Paul, an IT consultancy. "Modern encryption algorithms play a vital role in the security assurance of IT systems and communications."

Paul notes encryption algorithms can provide confidentiality, as well as the following key elements of security:

- = Authentication - the origin of a message can be verified.
- = Integrity - proof that the contents of a message have not been changed since it was sent.
- = Non-repudiation - the sender of a message cannot deny sending the message.

Why would eMars, offering Compliant Client, protect its at-rest data? "Security and peace of mind for our clients is our major concern," says Woody Chamberlain, president of eMars Inc., which offers Compliant Client. From routine payroll reviews to the complicated tracking of certified apprentices and calculation of restitution, the Compliant Client ensures at-rest payroll data is encrypted, remains error-free and follows Davis-Bacon.

"eMars encrypts sensitive at-rest data," Chamberlain adds. "We handle, save and encrypt hundreds of thousands of bits of information for our clients. Their workers' privacy and sanctity cannot be compromised." Chamberlain formerly was in high-level administration for a select group of top organizations across the United States.

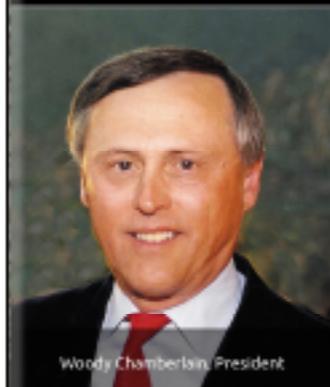
Perhaps some financial executives are unaware of the amazing Compliant Client system by eMars. "Ignorantia legis neminem excusat" is the famous Latin phrase, translated to English meaning "ignorance of law excuses no one."

Please contact eMars at 480-595-0466 for a no-obligation discovery phone call, or by email at [Woody.Chamberlain@Emarsinc.com](mailto:Woody.Chamberlain@Emarsinc.com). You may also visit [Emarsinc.com](http://Emarsinc.com).

See the eMars video:  
[https://youtu.be/rWtJqy7H\\_8](https://youtu.be/rWtJqy7H_8)

## COMPANY SPOTLIGHT

HELPING CONSTRUCTION COMPANIES STAY DAVIS-BACON COMPLIANT



Woody Chamberlain, President

### eMARS INC

Profile: eMars / Compliant Client is an easy to use web based software that makes it easy for construction companies' payroll to be compliant with the Davis - Bacon Act of 1931.

This unique paperless system encrypts all employee information, offering an 80% time and labor savings over hand preparation. Weekly payroll can be run in 7 minutes.

ERROR-FREE, WEB BASED SOFTWARE  
FINDS AND ALERTS USER OF 30+ COMPLIANCE ISSUES

President: **Woody Chamberlain**  
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Web Site: [emarsinc.com](http://emarsinc.com)  
Email: [Woody.Chamberlain@emarsinc.com](mailto:Woody.Chamberlain@emarsinc.com)  
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# About Safety Through Engineering

Safety Through Engineering, Inc. is a Structural and Safety Engineering, Expert Witness, Safety Training and Consulting firm with the reputation as a pioneer of innovative design and safety solutions. For over 35 years we have provided cutting-edge design services by expanding traditional engineering approaches.

At STE, we incorporate new concepts and technology throughout our projects with 3D BIM, finite element analysis, fabrication drawings and a plethora of services. Fueled by a forward thinking team, STE serves a superior client base with innovative industry solutions.

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JESCOHYDRATILT™ Dumpers which are available in 4000# capacity in .50, .75, 1, 1.5, and 2 cubic yard. The units are operator controlled with the hydraulic system of your forklift and used while seated on the lift. These new units are ideal when controlling the speed of discharging material is critical. The quick-disconnect lines are included on each of the units and a safety retaining chain. To fill out the line even more we have included ten different sizes of our Filter Press Hopper. Then along came the 90 degree Side Pivot Hopper and Low Profile Portable Hoppers with casters already installed.

Wire Mesh Partitions: 2"x1" rectangular mesh 10 gauge wire welded into an angle frame system is easy to use and easy to install. Ideal for around your automation enclosures, prevent your valuable tools from walking away from the tool crib, and quality control on non-conforming material, computer rooms, high security storage and so many more uses. JescoPalletGards® are wire containment backs for the pallet racks with stand-off clips (1.25, 4, 6 or 8 inch) design to fit most standard drilled pallet racks spaced two inch on center. Double hinge doors or double slide doors is an excellent way to secure high value products on the shelves.

1-1/2" Diamond mesh 10 gauge wire partition system are engineered for easy installation allowing unrestricted visibility and total air circulation. Inventory of standard height panels of 7, 8 or 10 high are available; but don't stop there because many industries require partitions to reach the trusses or building joists and that certainly can be accomplished. If you are installing partition on a raised platform (mezzanine) remember this requires zero or "no" sweep to keep everyone safe walking below. This is to prevent tools from dropping from the edge of the platform. (OSHA 1910.23(e)(4) Either partition system will work well but the more project information you are able to supply, the more knowledgeable we all become and it is truly amazing how that works!

The JESCOGARD® industrial guard rail 3-rib corrugation system will act as both a visual and physical barrier around your facility. The Economy Rail System is a 2-rib system and has been tested to withstand an impact of 10,000# traveling 4-mph. Should the need arise you can count on its strength without compromising quality at a price you can afford. Each system has available a self-closing single hinge gate with a sound dampening gasket on the gate.

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JESCOHUSKYDUMPERS®, wire partition systems, industrial guard rail systems, wire tenant storage lockers, industrial shelf carts, LP cylinder cabinets, machine guarding just to name a small portion of the products we offer to our customers. Our products are built to be the best in the industry and it is the reason customers keep coming back. Your satisfaction for a project well done is what really counts when the day comes to a close. We look forward for an opportunity to be able to assist your next industrial guarding or material handling requirements. Check out the full product line shown on the website at [www.jescoOnline.com](http://www.jescoOnline.com)

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## dB or not dB? <sup>SM</sup>

The Answer

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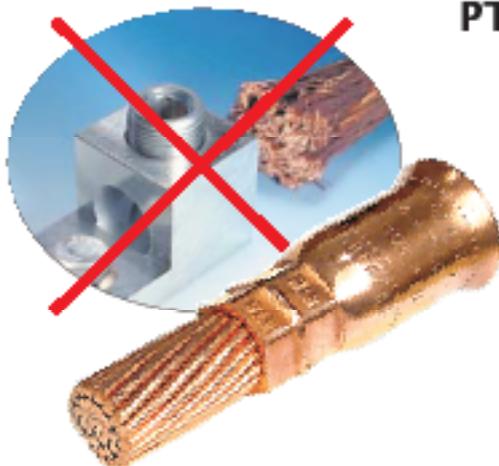
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- Fabricated of wrought copper with pin of Class B copper conductor
- Insulating covers are provided



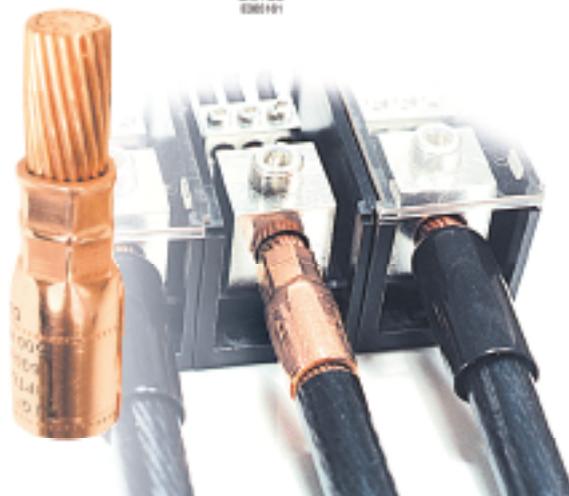
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- Fabricated of wrought copper barrel with pin of Class B copper conductor
- Insulating covers provided



For Copper  
Cable Only



**GREAVES**

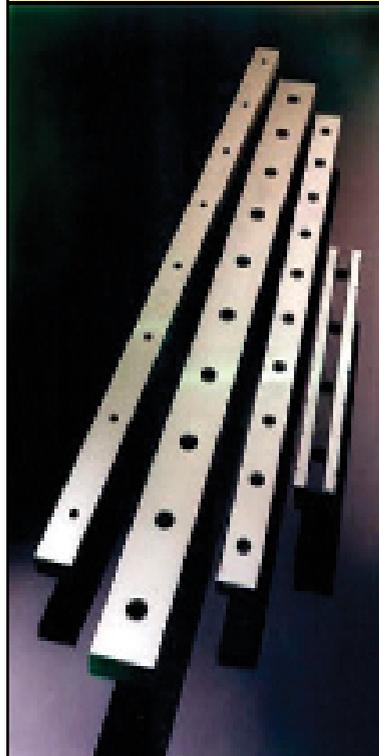
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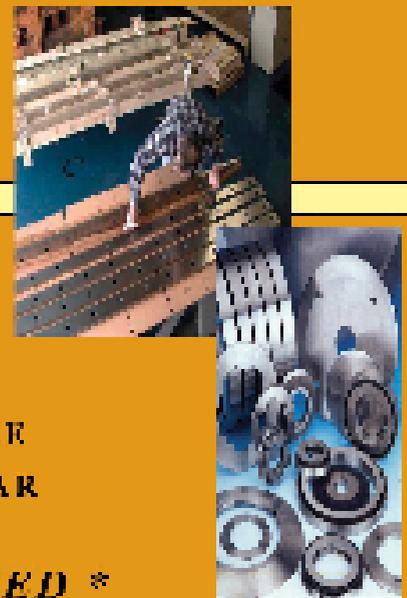
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