

JUNE 2018

SAFETYZONE MAGAZINE

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HEMCO Corporation Awarded Manufacturer of the Year 2018



HEMCO Corporation was named the Independence MO Manufacturer of the Year for 2018, by the Independence Chamber of Commerce. Awards are given to Independence businesses that have made a significant impact to the city's economy through capital investment and/or employment.

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**Ronald E. Hill P.E.
CEO & Co-Founder**

His 50+ years of entrepreneurial leadership have led HEMCO Corporation (Hill Engineering and Manufacturing Company) to fill a unique niche in the research, development, and manufacturing of Laboratory Facilities World Wide.

Ron is a founding member of the Scientific Equipment and Furniture Association (SEFA), has served as the Chair Person on the Laboratories Fume Hood Recommended Practices, the ASHRAE committee for Laboratory Fume Hood Performance Testing, and the American Industrial Hygiene Committee, Z9.5 Laboratory Ventilation Standard. He is a member of the Missouri Society of Professional Engineers (PEI), and the National Society of Professional Engineers. Member of the International Society of Pharmaceutical Engineers (ISPE) and the Independence Council for Economic Development (ICED)



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- PG 4 Company Profile: Nixalite
- PG 8 Guard-Safe Guarding: Five Easy Steps to Successful Machine Guarding!
- PG 10 Safety Railing Solutions- Smarter, Better, Easier!
- PG 12 About Safety Through Engineering
- PG 14 Standing Seam Roof Anchor- The Industry's Lightest and Most Universal Fit Anchor Point
- PG 18 Guard- Safe Guarding is a Total Solutions Guarding Company
- PG 20 Hemco: Emergency Safety Shower Decontamination Booth
- PG 21 Hemco: UniMax Floor Mounted (Walk-In) Fume Hoods
- PG 22 Hemco: Enclosures for Lab Automation and Robotics
- PG 24 The Hearing Loss Prevention Trifecta: Fit, Comfort, and Communication While Wearing
- PG 34 Tru-Break™ Solid Dielectric Switchgear Improves Worker Safety
- PG 38 Company Profile: RegScan One Global Regulatory Software
- PG 40 Ad Index

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Nixalite® the Company

Nixalite of America Inc is the leading manufacturer of effective and humane bird and animal control exclusion and dispersal products. Established in 1950, Nixalite is a third generation, family owned firm with over 150 years of combined experience in bird and animal control.

Nixalite® History

In the late 1940's, Charles B. Kaufmann patented and manufactured the first Nixalite bird control models and founded the Nixalite Company. Known as "porcupine wire" because of its prickly appearance, Nixalite spikes set the industry standards for product quality, reliability and superior design. Nixalite quality and reliability have captured the attention and loyalty of customers worldwide.

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Nixalite's executive and manufacturing facilities, located in East Moline, Illinois, are where high grade stainless steel wire and strip are turned into the world's finest bird and animal barriers. Call (888-624-1189) or E-mail (birdcontrol@nixalite.com) Nixalite for a free review of your pest bird or nuisance animal control problem. We are at your service.

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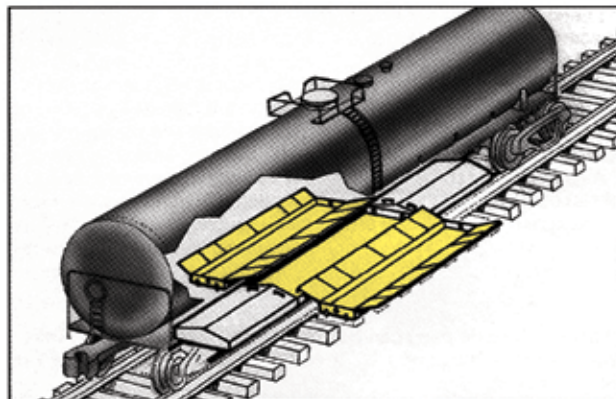


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Guard-Safe Guarding

Five Easy Steps to Successful Machine Guarding!



Identify the Hazards

Not all hazards are created equal. Nor are the solutions for guarding them. Keep in mind the basic principle: Over, Under, Around or Through. If any body part is capable of reaching a moving component by those means, it must be guarded. The example to the left shows an exposed rotating shaft and a fan that present a hazard to employees.



Scanning & Measurements

Set up an appointment with Guard-Safe Guarding to visit your facility and review your goals and primary objectives regarding your hazards. GSG will perform their own safety assessment to assist you in this process. GSG will photograph and measure the application. Some applications may require Laser Scanning to capture interferences and assist us in the design stage. The shaft/fan hazard from above was scanned by GSG, as shown here.

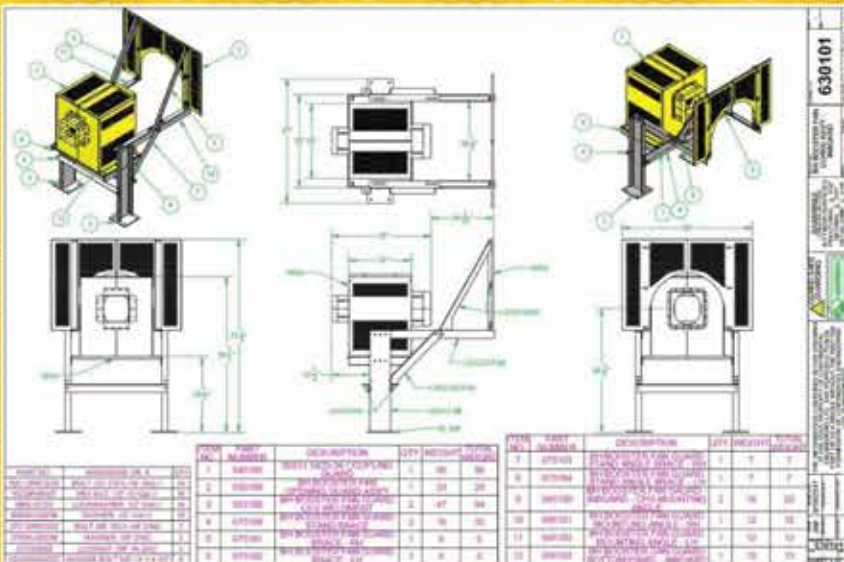


Designing your Guards

Upon processing the Laser Scan, GSG utilizes 3D CAD software to model the new guards and supporting structures. For simpler applications, the model is created based upon site measurements. A 3D CAD image is created and shared with our clients. The client is then able to visualize the final product, ask questions, and provide feedback regarding accessibility, or other concerns.

Engineering Drawings

Upon approval from the client of the initial concept model from above, GSG proceeds to create complete fabrication, arrangement and installation drawings. The drawings are once again submitted to the client for final approval prior to fabrication and shipment. O&M Manuals & drawings are provided for the client in electronic pdf format and paper format.



Installation

Guard-Safe Guarding powder coats all guards Safety Yellow. GSG preassembles the parts prior to shipping to ensure proper fit and delivers the guards assembled as much as possible to save time at installation. All guards are carefully packaged and shipped in a wooden box. It is recommended that a GSG technician be present during the installation process. All guards must be mounted rigid and secure.



At Guard-Safe Guarding we know that you care about your employees. We understand that guarding your equipment is not a simple or glamorous proposition. Guard-Safe Guarding is well prepared to answer your guarding questions. Typical concerns we hear are from Safety Managers looking for guidance, Maintenance personnel wanting easy access & removal of protective barriers, and from operators wanting to work safely, yet unencumbered. We have heard and addressed all of your concerns with our innovative and time saving products.

Please visit our website at www.guardsafeguarding.com call 712-754-4838 or email sales@guardsafeguarding.com to learn more about our custom engineered guarding process and our standard offerings including: Coupling Guards, Barrier Guarding, Idler Guards, V-Belt Guards and much more!





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Safety Railing Solutions - Smarter, Better, Easier!

Safety Rail Company is a Manufacturing Company comprised of innovators, engineers and problem solvers! They make OSHA-Compliant fall protection safety railings and guard rail systems that are durable and innovative, but still affordable. With years of industry experience, the fall protection products are engineered first and foremost to save lives.

Beyond the primary goal of safety they take their products a step further, making them easier to assemble, configure, use and store.

Service beyond compare!

The safety rail company team of experts take pride in their 100% american made fall protection systems and the personal service they give to their customers!

The staff at safety rail company is firmly committed to:

1. Dedicated one-on-one customer service
2. Free in-depth consultations to ensure you have the exact system you need
3. Free, Fast 3D CAD project plan modeling
4. 100% OSHA COMPLIANT AND MADE IN THE USA PRODUCTS
5. Full Installation services with factory trained in-house personnel
6. Ongoing partnerships that you can depend on for years to come

Let safety rail company be your turn-key provider! Project design, engineering, testing, manufacturing and installation from one trusted source!

Here is a list of some of their products they offer.

MOBILE SAFETY RAIL- Portable, free-standing safety railing and guardrail system, meet and exceed OSHA REGULATIONS for Fall Protection Compliance.

ACCU-FIT GUARDRAIL- Represents the next generation of fall protection railings, combining unparalleled safety, ease of installation and OSHA compliant with distinctive styling and appeal that no only compliments building architecture but will also satisfy the most discerning eye of clients and general public. The Accu-Fit Mobile Guardrail System offers clients upscale styling, clean site lines, heavy-duty construction and greater flexibility in navigating rooftop obstacles all in a non-penetrating, free-standing design that will not compromise the roof membrane!

PERMANENT GUARDRAIL- Permanent Guardrails for fall protection come in many shapes and sizes to address worksite needs. Their permanent mount safety guardrails offer the customer choices in Length, Height and Mounting Options.

One of the most unique features of our safety guard rail systems is that they can be removed from the railing holder, if needed.. By simply pulling a pin, the railing section can be removed from the base plate. The only thing that remains in place is the railing holder itself. This flexibility GREATLY increases productivity by having fall protection in place when you need it and removed for access when it might otherwise be in the way.

Check out the rest of safety rail products by going to their website: www.safetyrailcompany.com or email and ask them about their other products at sales@safetyrailcompany.com

Safety rail company looks forward to hearing from you and working for you!

www.safetyrailcompany.com •

Please come see us at the NSC show booth number #1339 to see our fall protection products and discuss your own fall protection needs for your company. Saving lives is our main goal!

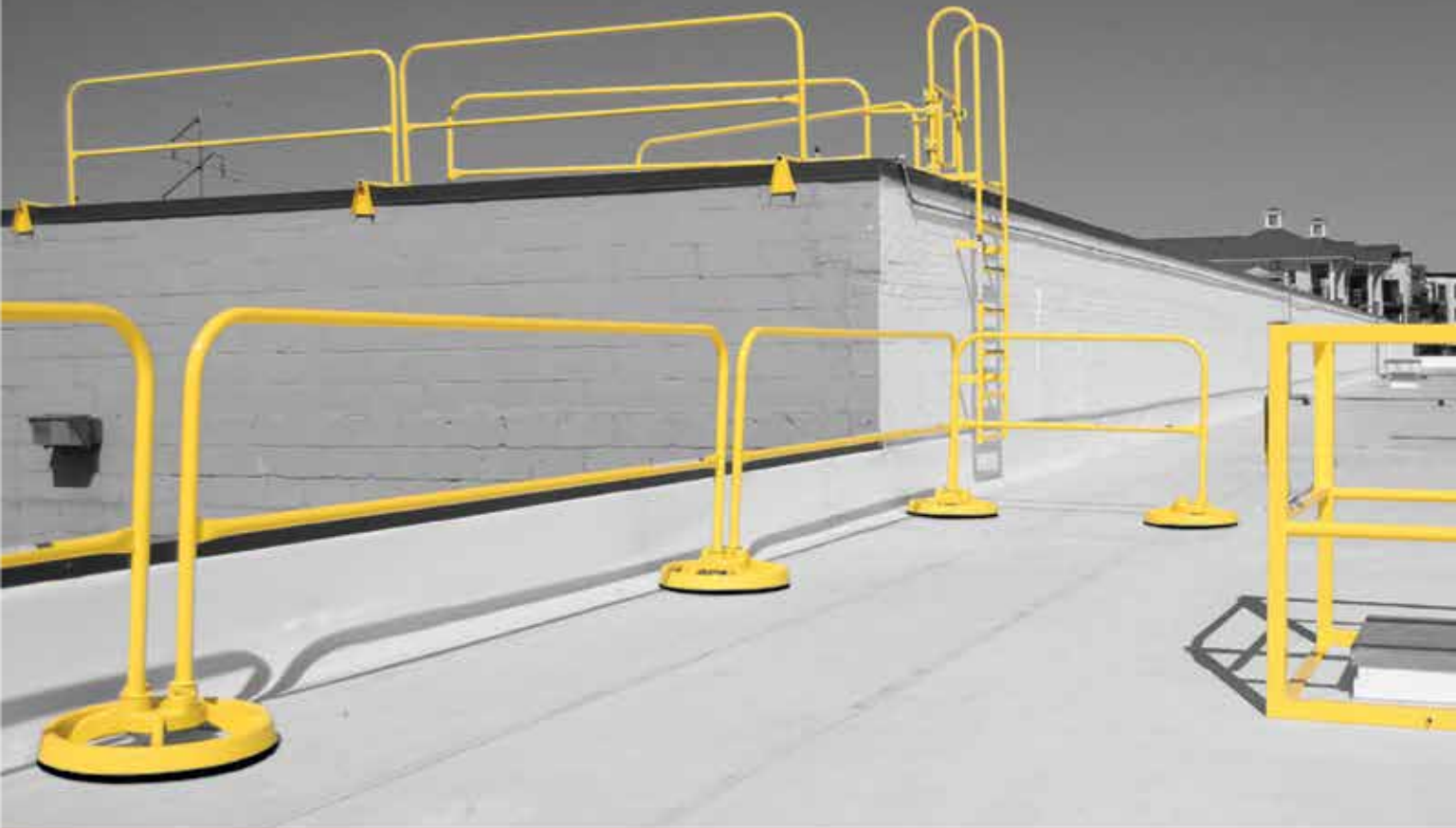
*NSC Show 2018 is located at the George B. Brown Convention Center, Houston Texas.
Congress: October 20th thru the 26th, 2018. • Expo: October 22nd thru the 24th, 2018..*

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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.

Why Choose Us

Uniquely qualified engineers, construction specialists, fall protection experts and advanced safety trainers, STE's team of professionals advocate solutions based on practical experience, emerging technology, customized education and specialized training.



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*Mike Wright
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Let us help you understand and untangle the complexities



STANDING SEAM ROOF ANCHOR

THE INDUSTRY'S LIGHTEST AND
MOST UNIVERSAL FIT ANCHOR POINT



The award winning Standing Seam Roof Anchor is engineered to solve many of the shortfalls in the fall protection industry. It provides a non-penetrating attachment for standing seam roofs. It is the industry's lightest anchor at only 4.5 lbs. It is the industry's most universal fit standing seam anchor with over 500 compatible seams. The patented, non-penetrating design of this life saving device is unlike anything currently available. The SSRA1 consists of a solid 6061-T6 aluminum body with 12 points of attachment to the seam. The standard assembly also includes a 5,000 lbs. certified D-ring for single man attachment.

The SSRA1 has several distinct advantages for homeowners, building owners, and contractors:

- Only 4.5 lbs.! World's lightest OSHA/ANSI 5,000lbs. compliant anchor. Installs in minutes with basic hand tools. Can be used for temporary or permanent attachment without penetrating the panels.
- Patented, universal fit design works on over 500 Standing Seam Panel Profiles with no reassembly required! Fits T-seams, bulb seams, SnapLok, single lok, double lok, MR-24, etc. No other anchor fits as many profiles. List of compatible profiles can be found at www.FallPD.com.
- ANSI ASTM B-117 Salt Spray tested, non-corrosive aluminum and stainless steel components. Can be powdercoated for colormatched permanent installations.
- Made in USA with a Lifetime Warranty.
- Clean, low profile attachment to the seam minimizes tripping hazards and is less obtrusive on permanent attachments.
- OSHA/ANSI tested to 5,000 lbs. in ALL directions of pull. Workers can access both sides of the roof without having to reposition the anchor. Test report can be reviewed at www.FallPD.com.
- The only OSHA/ANSI 3rd party tested component system for mounting just about anything to a standing seam roof. The interchangeable mount allows for attachment of devices from various fall protection manufacturers. Can be used for attachment of roof jacks, walk boards, SRLs, horizontal lifelines, ladder anchoring, etc.

"The introduction of the Standing Seam Roof Anchor has allowed homeowners, building owners, facility managers, and contractors to work safely on standing seam roofs without penetrating the panels. This device eliminates the need to buy multiple devices to fit various seam profiles. To my knowledge, the SSRA1 is the industry's lightest and most universal fit anchor point for standing seam roofs. Our distributor network is growing every month and sales have far exceeded projections. These latest awards are a tremendous honor for us as we have dedicated many years of time and energy into developing the new generation of anchor points. There is a lot more to come. Domestic and International distributors and OEM fall protection manufacturers are encouraged to inquire." says Howie Scarboro, CEO at Fall Protection Distributors, LLC.

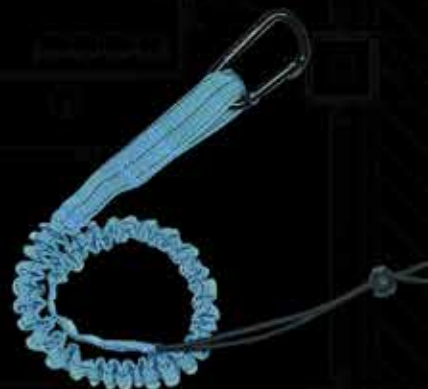
For additional information or to schedule an interview, contact Howie Scarboro, CEO – Fall Protection Distributors, LLC at 423.999.0107 or Howie@FallPD.com.

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STANDING SEAM ROOF ANCHOR

THE INDUSTRY'S LIGHTEST AND
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SAFETY

Guard-Safe Guarding is a Total Solutions Guarding Company

Why did we start our company? With over 30 years in the material handling and conveyor industry I experienced a fatality on one of my projects where a worker got his arm caught in between the conveyor belt and a troughing idler. He died at the scene.

Devastated by this terrible and preventable situation I searched for a solution that could have prevented this from happening and more importantly how could this be prevented in the future. The old saying - "a guard is a guard" was not the answer I was looking for. After looking at hundreds of existing guards in this industry; I was amazed how many were not compliant with the OSHA and MSHA regulations. Most were painted yellow- which is good, but I could reach around, under, over and through a lot of them- basically they were not in compliance to the regulations and they did not protect me or my fellow workers. I could not find a good solution so I did the next best thing and started Guard-Safe Guarding.

We provide a COMPLETE LINE for ALL machine safeguarding. There isn't a machine we can't guard. We design, engineer, fabricate and install OSHA and MSHA compliant Safe Guarding in the mining, utilities and all process industries.

We are a small organization from the heartland of America located in Sibley, Iowa.

Through our professional associations we have the abilities and capabilities to provide the knowledge and solutions to establish regulatory compliance within your plant or facility.

What is the Machine Safeguarding Assessment Process?

1. Discovery

We will ask that you provide a list of the machines that you would like included in the machine safeguarding assessment report. We will then go over specific questions regarding your project initiatives, and questions relating to your site.

2. Evaluation

Once on-site, we will evaluate the machines and equipment that were specified in the machine list you provided. Each piece of equipment will be documented by make, model serial number, property number if available, and will include pictures and/or videos of your machines and their hazards. We will then provide you with the regulatory references and our recommendations for correcting the hazard or hazards.

3. Risk Assessment

Each machine will also have a risk ranking assigned to it determined by the frequency of use, probability of injury, and severity of harm. This ranking will help you determine your current level of safety and help you prioritize your remediation project planning.

All dialog, observations, notes, and media acquired will be kept in the strictest of confidence.

With the many State OSHA and Federal OSHA regulations and standards to follow, properly assessing machinery and the hazards they present is a unique skillset that takes years of experience to master. Let us help you take the guess-work out of assessing the machines in your facility.

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“Our approach to any design must consider all possible outcomes, especially the safety of the individuals for whom and through whom our designs are intended.”

Mike Wright, President, STE Inc.

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Call (800) 779-4362 or visit us at www.EmergencyShowerBooths.com •

UniMax Floor Mounted (Walk-In) Fume Hoods

The UniMax series of hoods has been expanded to include wide selection of models that feature fire suppression systems to meet California requirements. Standard models range from 6 feet to 24 feet wide, 4 feet to 8 feet deep, and 7 feet to 16 feet high. Tall apparatus / distillation processes, roll-in reactors, or long integrated instrumentation systems can be easily accommodated in these hoods.

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The Hearing Loss Prevention Trifecta: Fit, Comfort, and Communication While Wearing

By Del Williams

At least four million workers go to work each day in damaging noise, ten million people in the U.S. have a noise-related hearing loss, and twenty-two million workers are exposed to

potentially damaging noise each year, according to the Centers for Disease Control and Prevention (CDC).

Occupational hearing loss is the most commonly recorded occupational illness in manufacturing accounting for

1 in 9 recordable illnesses, states the Bureau of Labor Statistics, as cited in a 2010 CDC National Institute for Occupational Safety and Health (NIOSH) document. Although a traumatic noise exposure may cause an immediate hearing loss in some cases, most occupational hearing losses occur so gradually that workers are unaware they are losing their hearing, adds the document. With continued exposure, the hearing loss spreads into those frequencies most needed to understand speech.

In many workplaces, disposable foam earplugs are traditionally used to block noise. However, their effectiveness depends not only on proper fit, and the matching of the protector to their particular ear but also on compliance – that is, whether workers wear them consistently and correctly place them in their ears.

“Most people wear disposable foam earplugs incorrectly, which limits their effectiveness,” says John Franks, PhD, a former NIOSH Hearing Loss Prevention Section Chief. “Each foam earplug is supposed to be rolled tightly, put deep in your ear canal, then held in place with your index finger until it fully expands and you can just see the outer edge. Instead, most people leave them hanging out of their ears.”

Another challenge occurs when workers must talk in person or via two-way radio in high-noise work environments. To hear and communicate, they remove their earplugs, which exposes them to damaging noise for the duration of the conversation. Such cumulative exposure to harmful workplace noise is a leading cause of hearing loss.



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"People commonly remove earplugs to carry on a conversation," says Franks. "But if they remove them 20% of the time, they have reduced their effectiveness by half."

Essentially what is required to optimally protect workers is a hearing loss prevention trifecta: a device that delivers the proper fit, maximum comfort, and the ability to communicate verbally or over radios without having to remove it.

To tackle the severe occupational hearing loss problem, it is helpful to consider the ideal solution, which requires allowing for all three factors.

First, an ideal hearing protection device would be customized to meet the needs of every employee or worker on the floor. That means fitting all ears regardless of differences in size, shape, or depth. Like snowflakes, no two ears are the same – and they continue to

grow throughout a person's lifetime – so there is no such thing as one-size-fits-all when it comes to hearing protection. With better fit and comfort, workers would wear the devices more compliantly.

Second, the hearing loss prevention device would prevent high-noise sounds from entering the ear at levels that could cause instant damage or damage over time.

"NIOSH recommends reducing worker noise exposure to 85 dB for eight hours, but this can still leave 12-15% with hearing loss over their work lives," says Franks.

Third, the device would prevent high-noise exposure without limiting communication, and could be worn all day. In this way, the worker could simply wear it the entire workday, which would eliminate the hearing damage that occurs when typical earplugs are removed in high-decibel work settings to communicate.

Fortunately, a new generation of occupational hearing protection has been designed with the trifecta of custom fit, comfort and ability to communicate while wearing.

Custom Fit

Unlike one-size-fits-most disposable earplugs, some cost-effective hearing protectors are fitted to the individual worker so every worker receives the same high level of hearing protection.

"If you make custom hearing protection available for everyone and ensure people know how to use it, studies have shown it can reduce occupational hearing loss to near zero in industry," says Franks.

Such custom hearing protection can be rendered quickly and cost-efficiently in an industrial setting.

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For instance, Custom Protect Ear (www.protectear.com), the largest personalized industrial hearing protector manufacturer in North America, custom molds hearing protection, such as its dB Blockers product line, to each worker's ear. The company's representatives go to the plant to take impressions of each worker's ear canal and outer ear in a process that usually takes about ten minutes per worker.

The custom impression is sent to the lab for processing where the device, which is an exact replica of the wearer's ear canal and outer ear, is manufactured. This ensures the device seals the ear both in the canal and around the ear, preventing damaging noise from entering while eliminating ear pressure. The company is increasing such precision by scanning the ear impression and is moving into 3D printing of the casting for even closer fit. Company representatives then return to the plant to train workers on

how to ensure proper fit and fix any that do not fit perfectly.

"A custom hearing protector fit is a key part of preventing occupational hearing loss because everyone's outer ear and ear canal is unique," says Franks. "The closer the fit, the better the function and the less people take them out to relieve ear pressure or modify them as is common with disposable foam earplugs."

Comfort and Compliance

Since Custom Protect Ear's hearing protection devices are made of a medical grade silicone, they are designed to be soft and flexible. The advantage of the softer devices is better comfort and function. They change shape slightly as the wearer's ear canal changes shape when talking or chewing, thereby continuing to seal during those activities.

"While various silicone-based hearing

protectors exist, it is important to use one made of medical grade silicone," says Franks. "This can help ensure that it is sufficiently supple and can prevent someone from developing an allergy to it."

Greater comfort addresses a significant problem facing health and safety managers who oversee hearing loss prevention programs: getting people to wear hearing protection products and policing their use.

Improved comfort enhances workers' ability to comply with wearing hearing protection for extended periods, and so do certain design aspects. Since they are custom molded, they only fit the correct way like a key fits a lock so it is not necessary to check insertion. When improperly inserted, discomfort encourages workers to correct insertion. Checking for compliance is also simplified because the hearing protector's colored exterior makes it easy for safety officers to see at a glance if workers are wearing them.

Communication Without Removing Device

Since workers often need to communicate in person during their work shift, they typically remove disposable earplugs to talk. To prevent occupational hearing loss, it can be important to provide custom hearing protectors that can be worn the entire work shift without removal.

Including a filter and vent in custom ear protectors like Custom Protect Ear's can make speech more understandable by reducing attenuation at higher speech frequencies. This allows leaving them in while talking, and isn't possible with typical solid foam earplugs.

Talking by two-way radio is also common in workplace settings. But because a radio must be louder than

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background noise for a worker to hear it, it usually is the loudest sound source in the work setting, which must be protected against to avoid hearing loss.

To deal with this problem, Custom Protect Ear connects incoming radio audio to the outside of the hearing protector so the device's filter reduces dB volume and the worker does not have to remove the hearing protector during his or her shift. Because the proprietary filters "squeeze" high and low frequencies to block potentially harmful sound waves, communication comes through, but harmful noise does not.

For robust hearing protection both in person and via radio, the company offers a convertible hearing loss protector. This provides the convenience of a detachable cord and a filtered vent for interpersonal communication, and attaches easily to various radio cords for seamless integration with radios.

"If you're using a radio to communicate, it is better to run a tube from the radio receiver to the custom hearing protector so workers can lower radio volume and protect their hearing," says Franks.

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TOPIC	QUESTION IDENTIFIER	Audit Questions	Auditor Guidelines
OFFICE: ALARM SYSTEMS	OFF-110.1.US	1. Does the facility have an employee alarm system? Cite: 29 CFR 1910.36(d); 29 CFR 1910.165	An employer must have and maintain an employee alarm system that is able to be heard, seen, or otherwise perceived by everyone in the workplace. The employee alarm system must be distinctive and recognized by all employees as a signal to evacuate the work area or perform actions identified in the ERP/EAP.
OFFICE: ALARM SYSTEMS	OFF-110.2.US	2. Is the employee alarm system tested annually? Cite: 29 CFR 1910.165(d)(4)	Employee alarm systems must be tested at least annually for reliability and adequacy.

G. AUDIT QUESTIONS

Date: _____
Facility: _____
Auditor: _____

Question ID	Audit Questions	Auditor Guidance And Notes-Audit Questions	Y E S	N O	N A	Comments
ERGONOMICS OFF-140.1.US	1. Are workstations configured so that employees can achieve ergonomically correct working postures?	Workstations should be configured to prevent common ergonomic problems. The computer keyboard and mouse should be within easy reach and at a comfortable height (elbow high), the keyboard and monitor should be aligned, and the screen should be at or slightly below eye level. There knee c under				
OFF-140.2.US	2. Are chairs used at workstations adjustable and in good condition?	Chairs so that employees can work in a comfortable seated position, with good body support. Chair height should allow feet to rest flat on the ground with thighs parallel to the				

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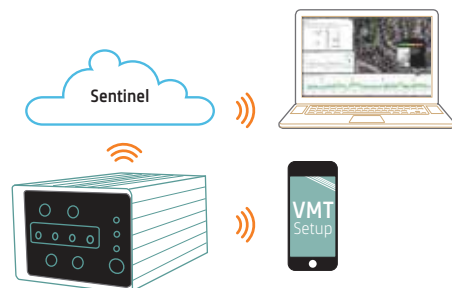
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Tutorials

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.

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