

NOVEMBER 2019

SAFETYZONE MAGAZINE

The Guessing Game is Over—
Maxbolt™ Revolutionizes
Clamp Load Monitoring

Track and Protect Vital
Industrial Assets with
Print Yourself Asset Tags

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LEVEL

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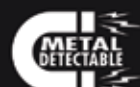
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*Cover Art Provided by Olfa



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SAFETYZONE MAGAZINE

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PRESIDENT

Glen Hobson
205-441-5591
glen@tipsmag.net

PUBLISHER

Anne Marie Miranda
205-624-2185
annm@handfmedia.net

ADMINISTRATIVE DIRECTOR

Steven Hobson
steven@tipsmag.net

EDITOR

Brandon Greenhill
brandon@handfmedia.net

CREATIVE/ WEB DIRECTOR

Jacklyn Greenhill
jacklyn@handfmedia.net

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P.O. Box 1568 • Pelham, AL 35124
Phone: 205-441-5591 • Fax: 205-624-2181
www.safetyzonemagazine.com
info@safetyzonemagazine.com

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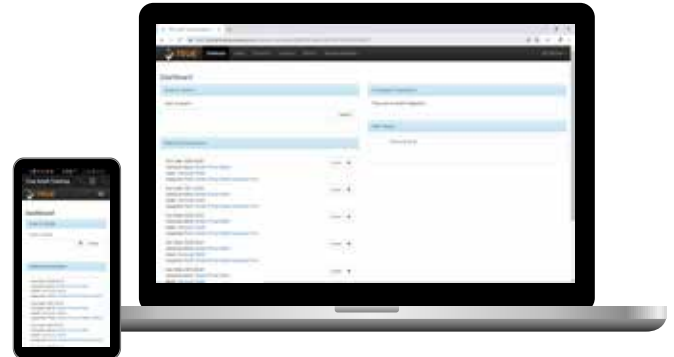
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Guard-Safe Guarding

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.



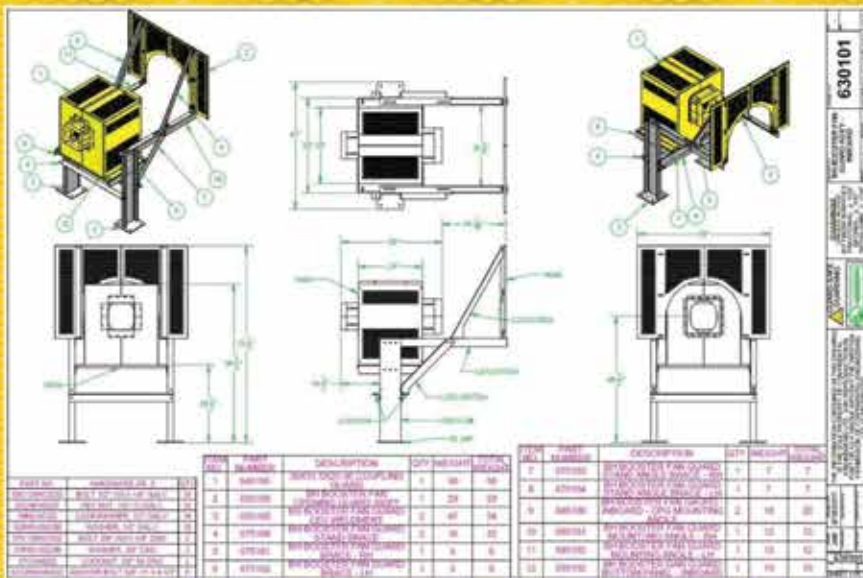
Scanning & Measurements

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.

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Utilizing Laser Scanning to Design Machine Guarding



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- ❖ **Designing Your Guards – Accuracy of -1/16” ensures that the guards we design from scanning will fit without interference.**
- ❖ **Engineered Drawings – Arrangement and details are approved by client prior to fabrication.**
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- ❖ **Installation – GSG technicians assure that all guards are mounted rigid and secure.**

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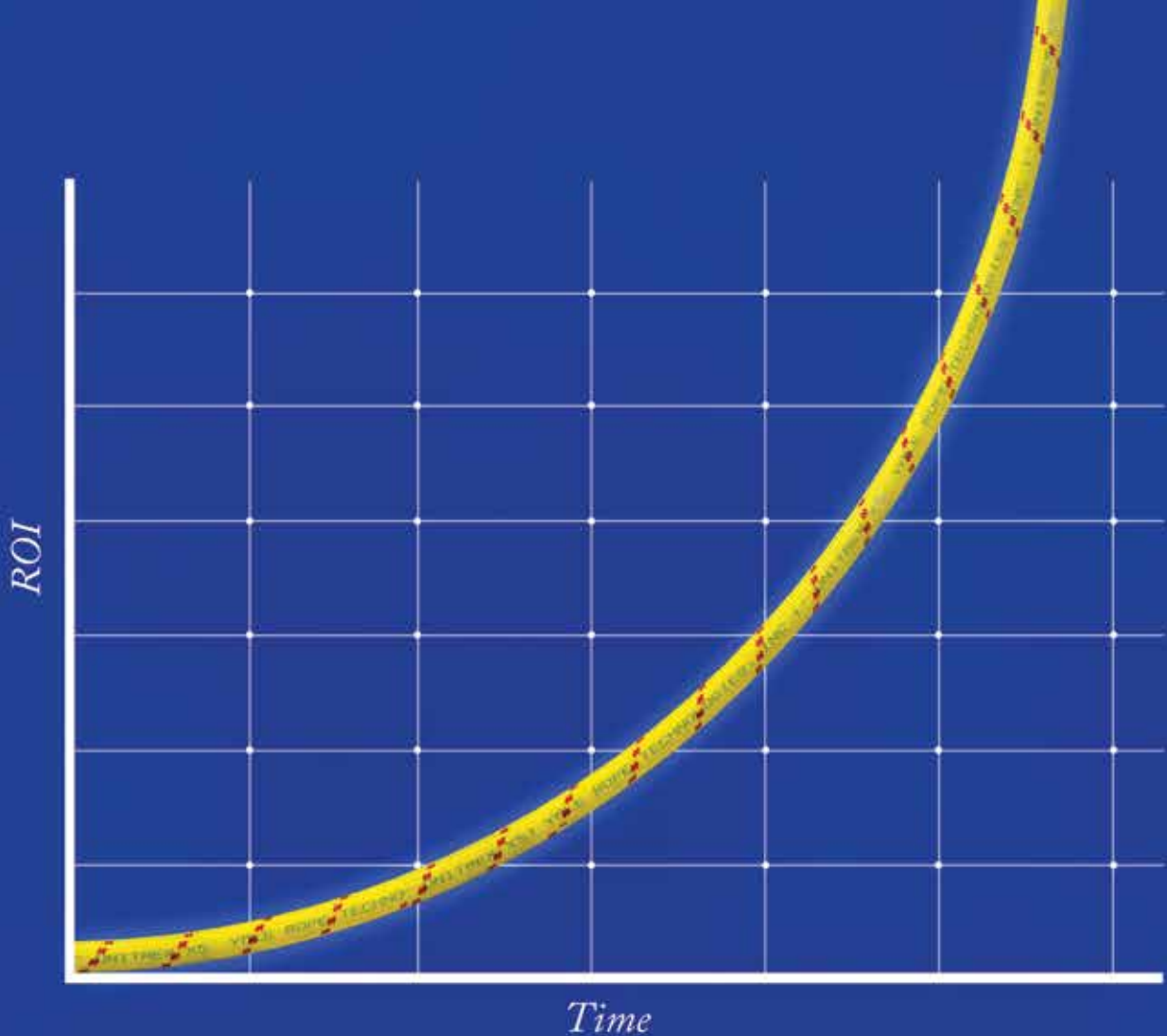


Tagging essential equipment and tools guards against theft, loss, and misplacement while improving workflow, maintenance, and asset management

For almost any sized company or institution with assets that need to be tracked –including industries such as automotive, manufacturing, technology, construction, healthcare, and government – it is essential to efficiently tag, track, and protect required assets. This commonly involves smartphones, laptops, machinery, construction tools, or diagnostic instruments.

Without proper asset management, equipment and tools shared across departments or jobsites can be misplaced, lost, stolen, or inadequately maintained. Asset and financial audits can get complicated. So, asset tags are utilized to ensure efficient workflow, reduce administrative overhead, and keep tools and equipment in good working order.

Asset or property tags, also known as equipment tags or labels, usually take the form of barcode labels attached to equipment, tools, and machinery. When scanned, this enables easy identification and processing. This capability is crucial when the tools or equipment are shared across jobsites or departments, checked in/out, or are



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otherwise prone to pilferage or misplacement.

In such conditions, the use of asset tags with barcodes that can be quickly scanned to provide needed information helps to improve security and workflow, maintenance and lifecycle management, as well as accurate inventory record keeping and financial depreciation to meet audit requirements.

However, successfully achieving this requires utilizing a combination of the right asset tag labels, asset management software, and barcode scanners for the job. One sticking point in this process has been the conspicuous absence of high-performance print yourself asset tags.

While traditional print yourself labels can be inexpensive, these often have not been durable or sticky enough, and typically offer poor print quality. On the other hand, custom printed labels are usually high quality, but are expensive and require long lead times with high minimum order quantities. With

custom printers, a typical investment of \$400 or more is needed just to get started. Not all companies need 500 asset tags at a time. It can be a big commitment to decide up front what text and numbers to include on each custom label.

Due to industry innovation, however, low cost, high-performance industrial asset tags have been developed to improve security and workflow. Because these durable asset tags can be customized and printed as needed with an existing laser printer in minutes, this enables easier, more economical tracking of necessary equipment and tools for operations and asset managers.

This approach not only works with traditional one-dimensional (1D or linear) barcodes, but also for two-dimensional (2D) barcodes, which hold far more data in less space by using two dimensions to more efficiently encode data.

While 1D barcodes can typically encode data such as lo-

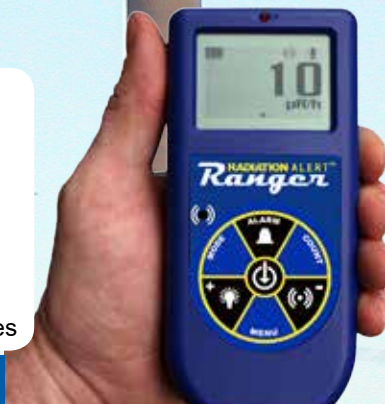
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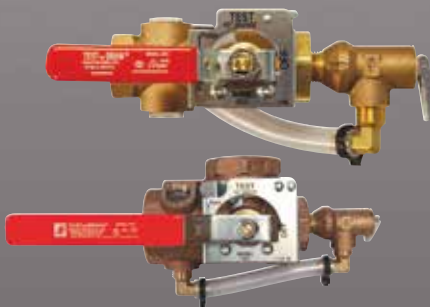
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cation, department and IP address (an identifying number for network hardware), 2D barcodes can contain not only website addresses but also images and voice.

Such labels, however, can only successfully serve as industrial asset tags when they reliably affix to tools, devices or instruments, remain undamaged, and scan properly. Failing this can lead to delayed device check-outs, lost gear, and high equipment replacement cost, as well as inaccurate inventory counts and botched audits.

Choosing the Right Label

Selecting the best label for the job depends on a number of factors, according to Tina Huff, Group Product Manager at Avery Products Corporation, a provider of industrial and commercial label products.

“Start by factoring in the work environment,” says Huff. “Think about where the asset will be used, whether it will be indoors, outdoors, affected by rugged use, abrasion, or exposed to water or chemicals.”

For light duty applications, Huff recommends that the asset tags should still be tear resistant and water resistant. This helps to avoid inadvertent label damage and ensure reliable scanner readings.

To withstand more challenging industrial environments, heavy duty metallic labels are typically preferred. While metallic print yourself options are not new, even some of these have had problems in terms of reliability, durability, and ease of use.

As an example, lesser quality pre-die cut labels can come apart inside a printer when the outside matrix material peels off the backing. This can cause serious jams, which render the labels unusable, and can even damage the printer.

Other print yourself labels lack sufficient abrasion or chemical resistance, leading to damaged print and barcode reading errors.



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With 30% DEET it is effective up to 7+ hours of protection against mosquitoes, ticks and other insects carrying diseases like Zika virus, West Nile virus and Lyme disease.

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Ivy X Pre-Contact Skin Solution

Acts as an invisible barrier to help protect against outdoor irritants.

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Some metallic label sheets even build up a static charge when printing that can shock anyone who picks the labels up from the printer!

As a solution, however, some metallic asset tags are designed for enhanced reliability, durability, and ease of use.

The heavy-duty Metallic Asset Tags in the new Avery PermaTrack™ line of asset tag labels, for example, are designed to be waterproof, resistant to tears, abrasion, and chemicals as well as shock free.

Because of this, in testing, the labels have provided good barcode scan ability even after 20 cycles of Taber Abrasion with 500 grams of force. Similarly, in further testing, the labels showed essentially no print loss after a 32 second soak in chemicals like Isopropyl Alcohol, followed by 10 abrasive rubs. The labels are also designed to dissipate static buildup, so that no one will get an unpleasant shock.

Once the asset tag labels have been chosen, appropriate label design software is needed. For the best print on demand results, the label printing software should be able to be easily customized to meet changing corporate, departmental, or regulatory demands as conditions or formats change.

However, the problem is that custom printed asset tags have traditionally required a large upfront investment of hundreds of dollars, with relatively large minimum order quantities and no flexibility once they have been printed. As such, the average price is usually over \$1 per label.

In response, industry innovators such as Avery have developed a simplified, flexible approach using standard laser printers at a cost as low as \$0.15 per label, which avoids high minimum orders. The company's free online Design and Print Software enables customizable printing utilizing templates.

Employees can create and print their own asset tag barcode labels from pre-designed templates or create them step-by-step on demand at their desk. Most employees find the process intuitive, since it resembles creating an office document from pre-designed templates.

With all the coordination in tracking, inventorying, and maintaining equipment and tools required in an industrial setting, the ability to conveniently print asset tag labels as needed in minutes will go a long way toward keeping facilities and jobsites running efficiently with much less hassle and cost.

For more information visit www.Avery.com/assettags •



The advertisement features the Jesco logo (green text, 'Since 1932' tagline) and the WIPCO logo (black diamond shape with white text). Below the logos is a collage of various industrial equipment, including forklifts, pallet jacks, storage racks, and material handling systems, each enclosed in a colored border. At the bottom, contact information is provided: 'Call 800-529-6697 Visit www.JescoOnline.com' and 'Jesco Industries, Inc. 950 Anderson Rd PO Box 388 Litchfield, MI 49252-0388'.

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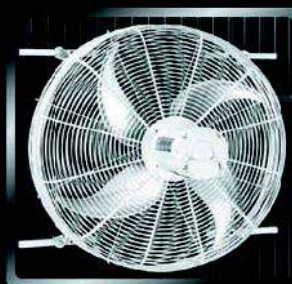
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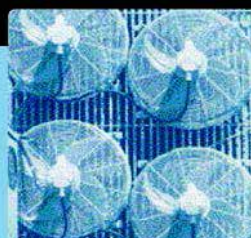
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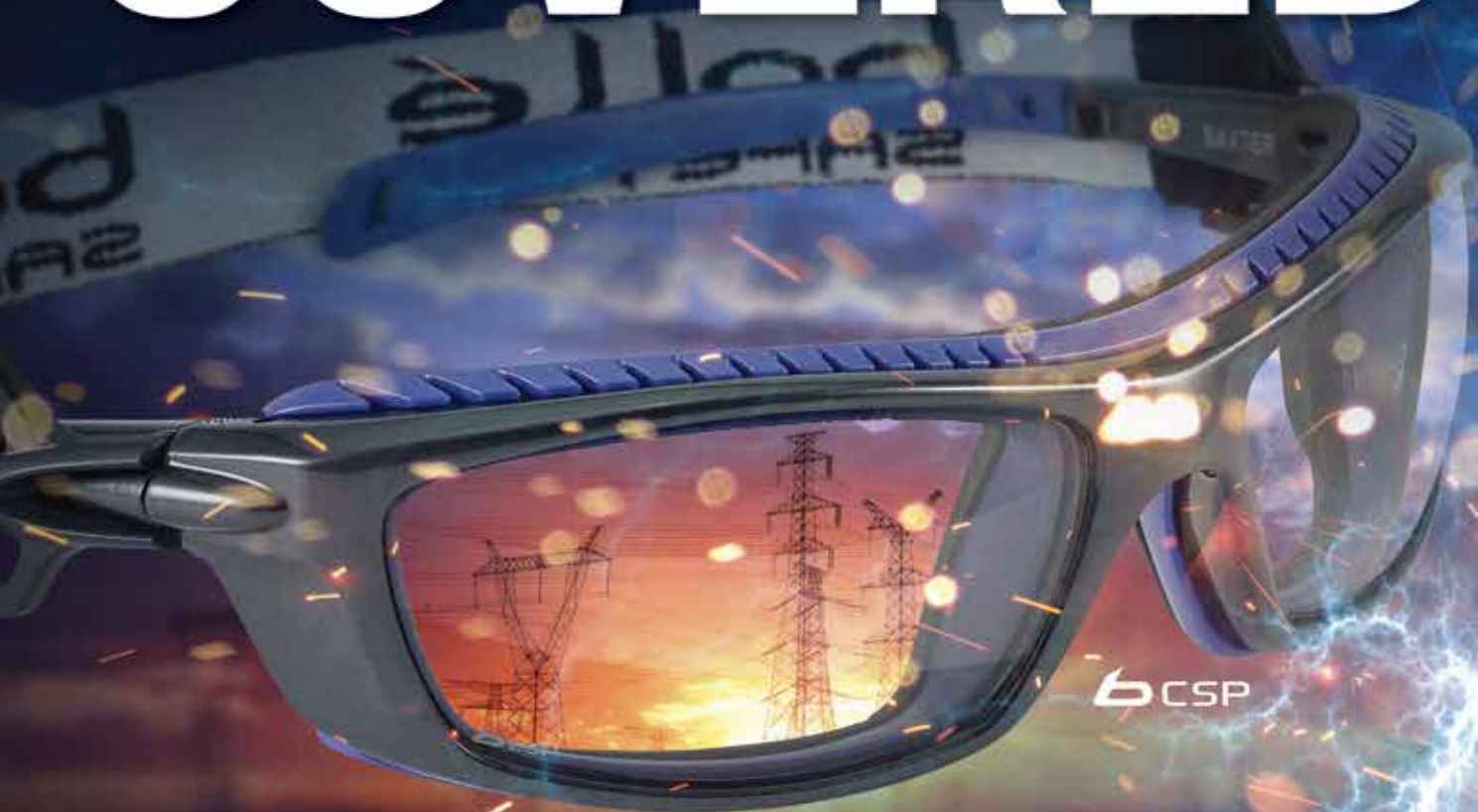
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Bug X 30 Insect Repellent

With 30% DEET it is effective up to 7+ hours of protection against mosquitoes, ticks and other insects carrying diseases like Zika virus, West Nile virus and Lyme disease.

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The Guessing Game is Over— Maxbolt™ Revolutionizes Clamp Load Monitoring

Built-in load monitoring device helps reduce downtime, premature wear, and catastrophic joint failures



Bolts and fasteners might be small, but their failure can cause big problems. In some critical industries—including processing, mining, and energy—joint failure is considered a major safety issue and keeping up with replacements is expensive. Work shutdowns required for changeout can cost several thousand dollars at a time, and add up to millions over the course of a year. Some businesses have gotten used to replacing more than a dozen broken bolts each day! It doesn't have to be this way.

Maxbolt™ Load Indicating Fasteners, a patented product of Valley Forge & Bolt Mfg. Co., can revolutionize how a company looks at fasteners—and reduce downtime, premature wear, and catastrophic joint failures. How can a simple bolt be so effective? For starters, Maxbolt is far from simple. There is an extremely accurate and durable load-monitoring device inserted into each fastener. At a glance, technicians will know when proper load is achieved. During operation, technicians will know if load ever falls out of spec on any bolt, addressing the need immediately instead of waiting for critical equipment failure.

Now, even inexperienced operators can assemble complex bolted joints with uniform clamp loads within $\pm 5\%$ of design specification. With Maxbolts, measurements are based on tension, the inaccuracies of torque control are eliminated, ensuring optimum initial conditions before an assembly is placed into service.

Once in service, Maxbolts provide monitoring to warn users of initial relaxation and any subsequent loosening during operation, with just a quick glance required to confirm clamp load status. Custom Maxbolt labels can show desired operating ranges using a green zone or pinpoint precise clamp load

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values. The Maxbolt Load Indicating System provides the ultimate safety and reliability in a bolted joint, acting as a constant barometer of the integrity of the bolted joint and providing an added degree of safety.

Any industry that experiences loss of clamp load in fasteners can benefit from Maxbolt. Success stories have been documented in industries as diverse as mining, steel mills, oil and gas, rail, petro/chem, and nuclear. One Valley Forge & Bolt customer estimates they've saved \$20 million per year, simply by switching to Maxbolt!

There are only two technologies for industry to choose in order to meet ASTM F-2482, the standard for load-indicating externally thread-

ed fasteners, while maintaining values to within +/-5% accuracy, Maxbolt and a second technology, SPC4™. Unlike Maxbolt™, for which a reader is integral to the bolt, fasteners with SPC4 allow technicians to verify load by attaching a probe to a datum disc usually located on the head of the fastener and reading the load value. Valley Forge & Bolt manufactures both the Maxbolt and SPC4.

To learn more about Maxbolt, visit <https://www.vfbolts.com/product/maxbolt-load-indicating-fastener-system/> or SPC4. •

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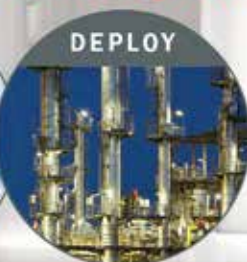
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