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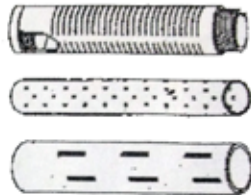
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RAYCO
BY MORBARK

Valley Forge & Bolt Introduces SPC4™ 406A Handheld Meter

Rugged new model stands up to heat and humidity found in mining, oil and gas, more

Valley Forge & Bolt, a domestic manufacturer of patented bolting products for critical applications, introduces the newest meter for its SPC4™ Load Verifying System. The SPC4™ 406A Electronic Meter (VF# SPC4-ASM-406A) is specially designed for accurate performance in heat, humidity, and other demanding environments.

The SPC4™ system encompasses fasteners equipped with Valley Forge load-indicating technology along with a wide variety of meters to fit a range of applications and environmental conditions. The meters, including analog, digital, or Wi-Fi versions, measure tension directly from within the fastener to +/- 5% accuracy. The 406A meter joins this complete offering.

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the actual load within critical joints. In the field, this information is used to make both installation and maintenance faster and more accurate, create more effective maintenance schedules, and give crucial, early insight into fastener and equipment behavior that might lead to premature failure, allowing it to be corrected before problems arise. The net gain is increased productivity, performance, and safety combined with savings of time and money.

The 406A meter, which is already in use in the jungles of Peru, boasts a rugged design with a shock-resistant casing that is IP54-rated for protection against dust and particles. Its internals are specifically engineered to deliver high performance in hot and humid conditions like those often found in mining and oil and gas applications. Bluetooth compatibility provides scalability for remote data monitoring and data logging capability.

“SPC4™ technology has been embraced by customers throughout the mining and oil and gas industries,” said James Brooks, Valley Forge & Bolt’s director of engineering and new business development. “With the 406A, our aim was to create a meter with the extra durability these environments need while still maintaining the high degree of accuracy people expect from Valley Forge.”

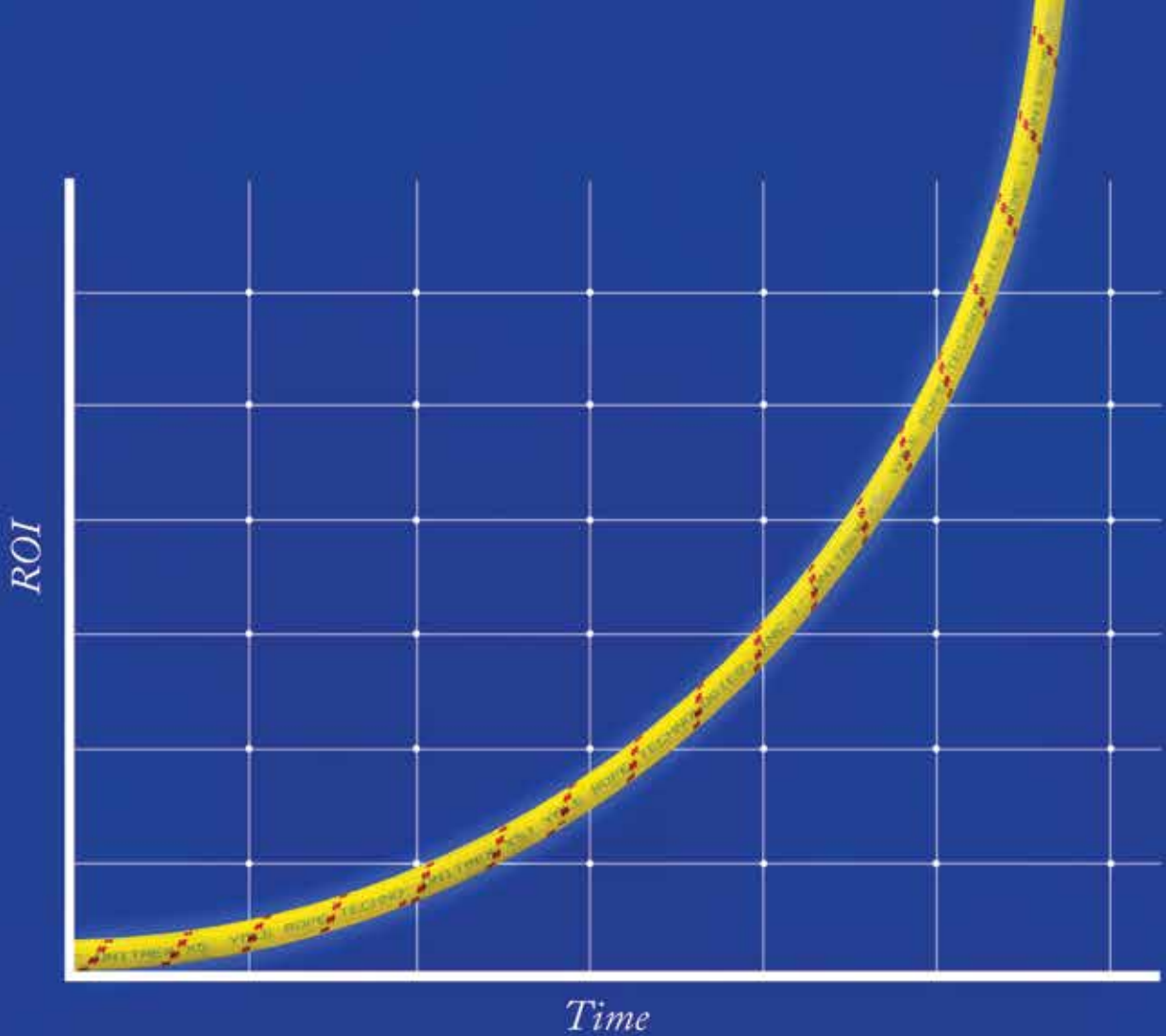
The ergonomic handheld design was built for ease of use in the field; its one-touch operation is easy to engage without removing PPE gloves, and a large digital display allows for easy reading.

Brooks says Valley Forge has accomplished its goal with the 406A, and he’s eager to see what other industries will embrace it. “This meter easily stands up to extreme environmental conditions. Its proving ground was in mining and oil and gas, and we expect it will perform impressively in other demanding environments,” said Brooks.

To learn more about the complete lineup of Valley Forge & Bolt Load Indicating Fasteners, visit <https://www.vfbolts.com/>.

About Valley Forge & Bolt

Valley Forge & Bolt Mfg. Co. is a domestic manufacturer of innovative, industry-leading fasteners. From start to finish, no matter the bolting issue or the industry, the company's expertise and resources provide endless capabilities and immeasurable combined bolting experience. Their patented bolting products are widely trusted for their unrivaled quality, extraordinary performance, and enduring reliability. With the ability to produce both standard and custom fasteners to customer drawings and specifications, Valley Forge & Bolt is truly a custom bolt manufacturer, and has been doing it proudly for 45 years. Valley Forge & Bolt Mfg. Co., 4410 W. Jefferson Street, Phoenix, AZ 85043. Call: 1 (602) 269-5748. On the web: www.vfbolts.com •



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Countertrend: Replacing Replacement Windows



Skip window replacement. Adding a second inner window provides soundproofing, energy savings, safety

The current trend in home remodeling is to replace old windows with new, modern, dual pane, wood or vinyl frame, replacement windows. However, what is trendy isn't always best.

Replacement windows are fine if a new look and some energy savings is the goal, but will do little if reducing outside noise to get peace and quiet indoors is the real problem.

The challenge is that replacement windows are not really designed to reduce noise, and the vast majority of exterior noise enters through windows, not walls. So, when homeowners took to contractors to help them create a cozy, sanctuary in their homes, it often makes more sense for them to improve the existing windows rather than replace them.

That's why a cost-effective countertrend is developing to keep existing windows but enhance function

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by placing a soundproof, matching inner window inside the existing windows. This method can stop up to 95% of outside noise, while enhancing energy savings and safety. It not only provides extra thermal insulation, but also a virtually shatterproof barrier that deters intruders.

Because no window replacement is required, the installation process can take as little as one hour per window, which minimizes home disruption. A similar technique, which installs a functional, matching patio door inside or outside of an existing one, also provides comparable benefits for patio doors.

Keep the Noise Out

From screeching traffic and blaring car/train horns to barking dogs and roaring leaf blowers, dual pane windows will not keep out the noise because

they are not designed to do so. The problem with a typical dual pane window is that the dual panes act like a drum and reverberate in response to external noise vibrations. The result is that the noise as sound vibrations transfers right through the panes. On top of this, the seals of most dual pane windows degrade within a few years, which allows even more outside noise to pass through.

Some replacement window manufacturers tout single pane acrylic windows as soundproofing. However, acrylic panes in typical 1/4" thicknesses lack sufficient mass to stop much noise. Acoustic testing has demonstrated that a single pane acrylic window must be at least 3/8" thick before it provides a good acoustic soundproofing value.

An even more effective solution incorporates recording studio soundproofing technology to block

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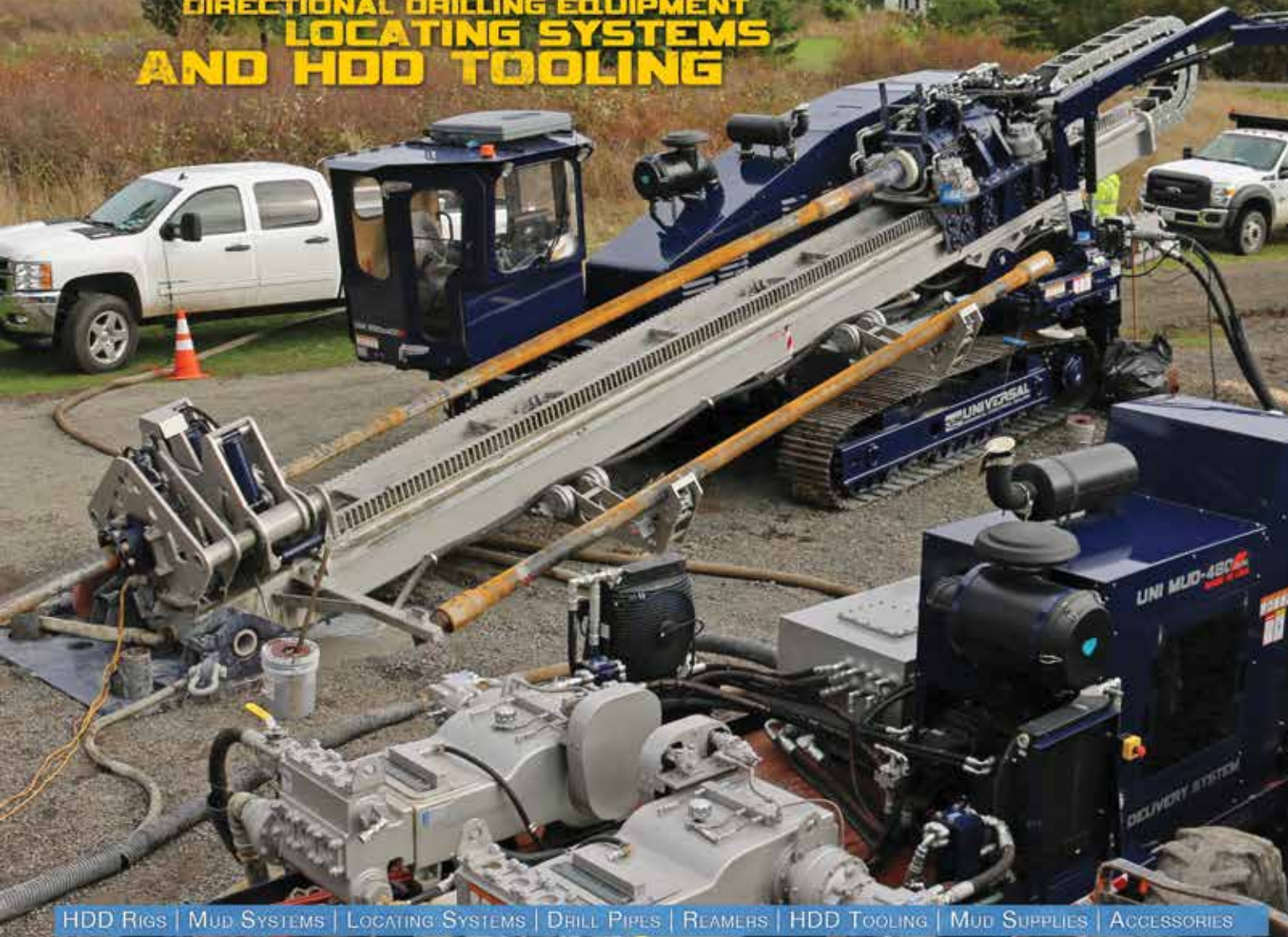
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This prevents sound leaks and helps to stop noise from vibrating through the glass. The spring-loaded seals are designed to stay acoustically sound for decades.

Energy Efficiency

Typical windows and glass patio doors are notorious causes of home heating and cooling loss. They transfer heat/cold by thermal conduction through the panes and glass surface, so additional heating or cooling is required to keep everyone comfortable.

Air leakage through window and patio door seals that crack over time also worsens the problem. While single pane windows transfer the most heating/cooling, even dual pane windows may be insufficient to keep homes sufficiently warm in winter/cool in summer without raising utility costs.

As a solution, adding an inner insulating window to existing windows, and a “second sliding patio door” that can be installed inside or outside of the existing door, however, can dramatically improve thermal efficiency.

In fact, this approach provides an additional layer of insulation with better insulation values than the best double pane windows, and substantially improves insulation values for dual pane windows as well. The second sliding patio door has even greater insulation value due to its greater surface area. This can reduce heat loss by 77% or more for single paned windows, and heating/cooling bills by up to 30%, while stopping air infiltration for further energy savings and greater comfort.

Improve Security

Another important side benefit to this soundproofing approach is security enhancement, since its construction helps to deter burglary/breaking and entering through typical windows or sliding glass doors.

up to 95% of external noise penetration, which can make unwanted noise sound like it is at least two football fields farther away.

This approach first dampens sound vibrations with an inner window of laminated glass installed behind the existing window. The lamination acts like a finger placed on a vibrating wine glass to deaden the sound vibrations when struck. An inner layer of tough polyvinyl, similar to that used in car windshields, further dampens sound vibrations.

Next, air space of 2-4 inches between the existing window and the soundproof window also significantly improves noise reduction because it isolates the window frame from external sound vibrations.

Finally, spring-loaded seals in the second window frame put a constant squeeze on the glass panels.

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While standard windows or tempered glass sliding doors can be shattered by a sharp blow, the laminated glass used in such soundproofing offers significant break in protection because it is shatter resistant and tends to remain intact even after repeated blows. Such laminated glass is actually a major component of most bulletproof glass.

The Bottom Line

If homeowners want to change the curbside appearance of their home, they still might consider replacement windows.

But if stopping outside noise from driving them crazy during the day or keeping them up at night is important, or cutting energy bills, or improving home security, then they will want to add an inner window or patio door instead of replacing them with inferior options.

As an added plus, the cost for homeowners can often be less, depending on window size or the noise reduction sought. Installation can take a fraction of the time of replacement windows, leaving contractors more time to move on to other jobs.

For more information, contact Soundproof Windows, Inc. at 4673 Aircenter Circle, Reno, NV 89502; call 1-877-438-7843; email sales@soundproofwindows.com; or visit <http://www.soundproofwindows.com>

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ALLU Announces New ALLU Processor Dealer for Western United States

ALLU Group Inc. is pleased to announce Keystone Drill Services, Inc., with headquarters in Somerset, Pennsylvania, as its newest dealer for the ALLU Processor line. Keystone will provide sales, parts and service for ALLU's unique power-mixer attachments to customers primarily in the western United States.

The ALLU Processor is a hydraulic power-mixer attachment that converts a conventional excavator into a powerful and versatile mixing tool capable of penetrating and effectively mixing a variety of difficult materials — everything from clay, silt, peat, sludge and sediment, to dredged material and contaminated soil. Applications for this tool include site remediation, soil stabilization and contaminated soil treatment.

Founded in 1985, Keystone Drill Services provides products and services to the oil and gas, foundation/construction, elevator shaft, water well, blast hole, ground engineering, industrial power plant, pipeline, horizontal boring and directional drilling industries. With a corporate philosophy of "24/7 service," Keystone ensures that its customers have the ability to reach a qualified person at any time.

ALLU Group Inc. Vice President Marketing Edison Rocha notes, "The ALLU Processor line is a simple solution for a highly technical application, which requires knowledge of this application to help customers to succeed. We believe Keystone has the experience, knowledge, customer relations reputation and capacity to offer the support these customers need."

"Keystone Drill Services, Inc., is extremely excited to be representing the ALLU Soil Stabilization quality lineup of equipment," says Scott A. Slater, Chief Executive Officer for Keystone Drill Services, Inc. "After meeting the ALLU personnel and seeing their equipment at the 2020 CONEXPO-CON/AGG show, we all agreed that this niche product provides new opportunities for our customer base needs, and it coincides perfectly with the support of Keystone."

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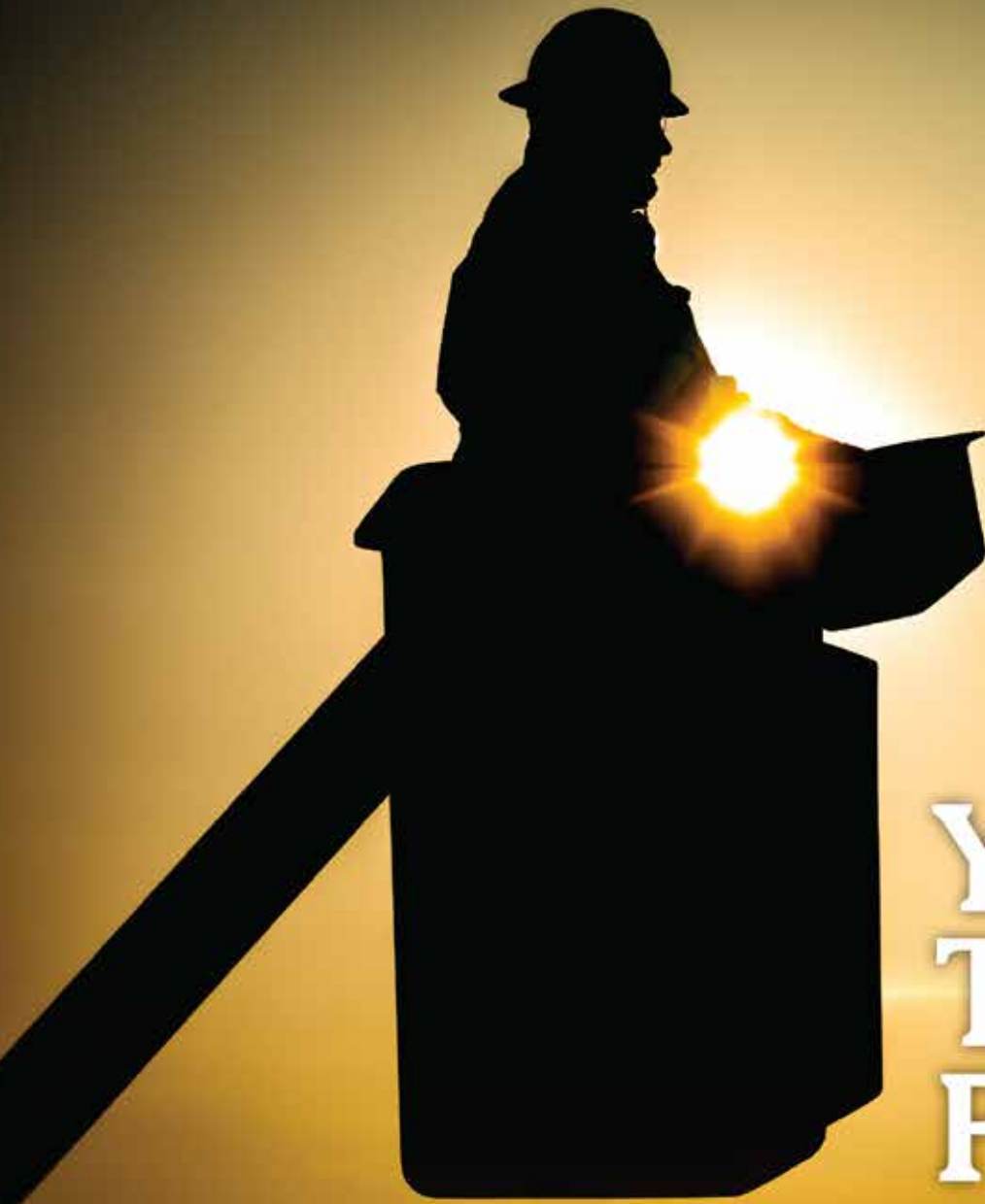
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