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NEW EQUIPMENT

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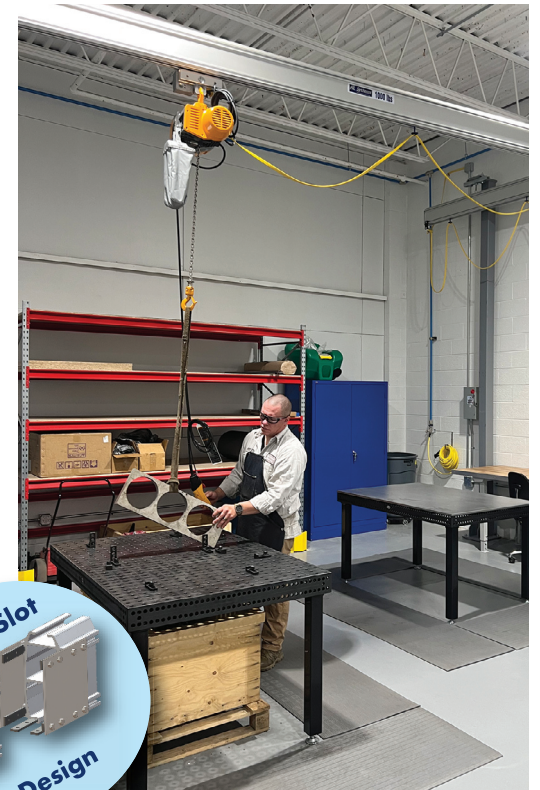
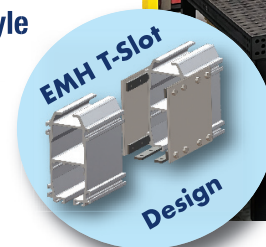
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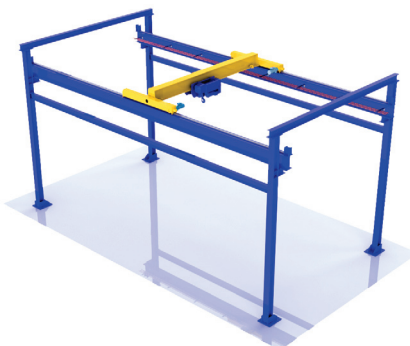
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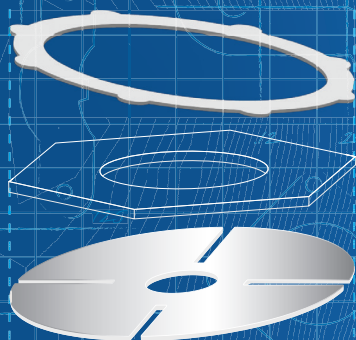


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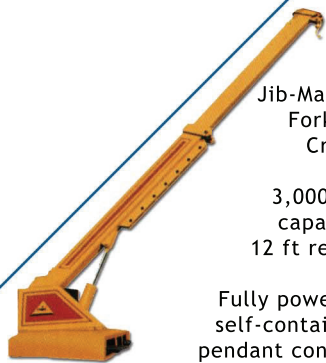
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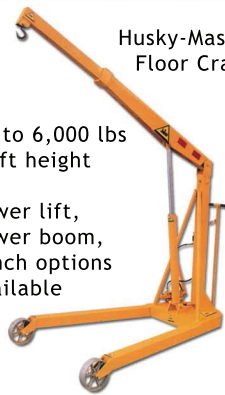
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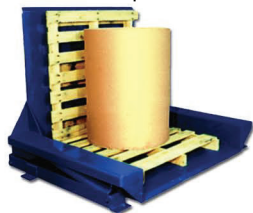
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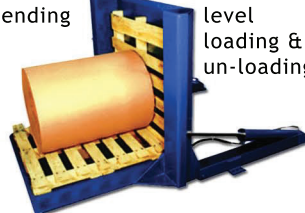
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Case Study: Industrial Data Platform and Digital Twin Power Advanced Maintenance at Cosmo Oil

Real-time data, AI, and predictive maintenance deliver ample efficiencies to three refineries, where engineers previously spent 70 to 80% of their time collecting maintenance data.

by Sheila Kennedy, CMRP

Mounting external forces inspired Cosmo Oil, a division of Cosmo Energy Group, to rethink its data management and maintenance strategies. The Japanese petrochemical company's biggest impediment to efficiency was its highly dispersed and siloed maintenance data. Solving that would open the door to modern maintenance practices.

By implementing a new foundational data platform, refinery digital twin, centralized hub for maintenance operations, along with AI, Cosmo Oil not only slashed the time required to find and analyze data but also enabled real-time condition monitoring and predictive and collaborative maintenance across its three refineries.

Challenges Breed Opportunities

Demographic and demand shifts posed a growing risk to Cosmo Oil's competitiveness and growth. Recruiting new engineers was more challenging due to Japan's declining birth rate and the scarcity of petroleum engineering graduates in the talent pool. Meanwhile, domestic demand for fuel oil was declining. Accordingly, Cosmo Oil sought to operate its refineries more productively and autonomously with smaller, dedicated teams per site.

A prime opportunity was improving access to vital maintenance information because its engineers were spending 70 to 80% of their time collecting data. For example, troubleshooting critical equipment involved collecting information such as piping and instrumentation diagrams (P&ID), facility layouts, equipment drawings, inspection records, and maintenance

plans from disparate, siloed data sources—all before organizing and adding context to the data to make maintenance planning decisions.

Cosmo Oil wanted to empower its engineers and maintenance experts to quickly extract operational, maintenance, and inspection insights and make data-driven decisions. This would require rapidly consolidating information from Excel files, PDFs, historical documents, paper maintenance records, asset performance management (APM) data, and more into one system.

Digital twin capabilities were needed to replicate the three real-world refineries as a single plant in a virtual space, with virtual reality (VR) enabling remote access to the digital twin. The envisioned process was for an engineer wearing VR goggles to be able to enter a virtual space, touch heat exchangers or pumps, and sequentially check the associated data.

The ideal platform would:

- Centralize data management across the Sakai, Chiba, and Yokkaichi refineries.
- Enable remote condition monitoring.
- Support maintenance collaboration among the refineries.
- Move the refineries toward predictive maintenance.
- Facilitate knowledge transfer from retiring domain experts to the new generation.
- Drive high operational efficiency and productivity.

Digital Transformation Foundation

The search led to Cognite Data Fusion, an industrial data and AI platform from Cognite. Cognite Data Fusion would allow

Cosmo Oil to collect and integrate millions of maintenance data points, automatically contextualize the data, and maintain a dynamic digital twin that makes maintenance information and insights immediately available to plant workers.

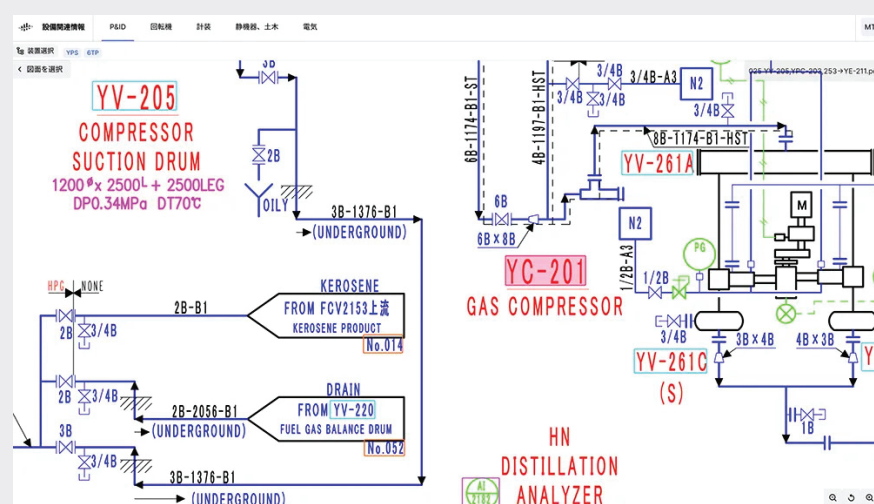


Cosmo Oil engineer at one of its refinery plants. © Cosmo Oil

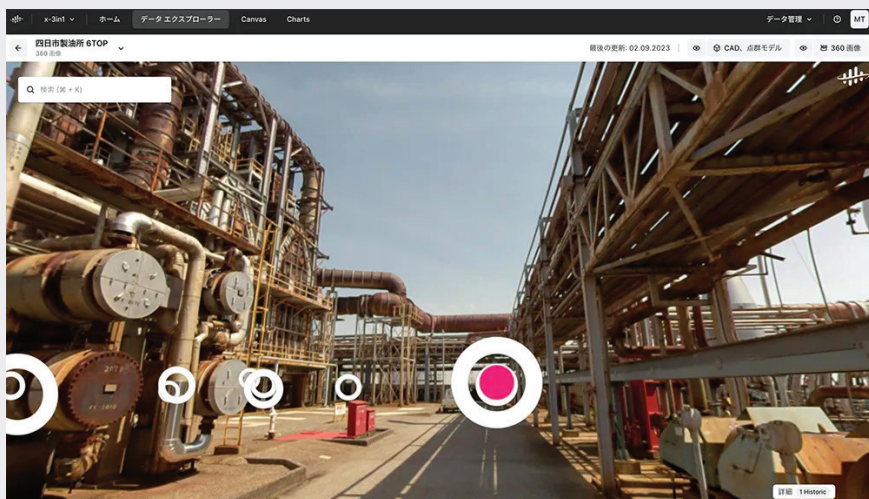
Additionally, using AI and machine learning for predictive maintenance and condition sensors to capture real-time wireless monitoring data, such as vibration patterns, it would be possible to predict when a defined threshold value will be breached, allowing maintenance to be planned and scheduled before failure.

The successful proof of concept (PoC) ended three months early because the data collection and automatic contextualization proved exceptionally fast. "The speed was such that if we input data in the evening, the data construction task would be completed by the next morning," observed Mr. Kiyohide Yoshii, the Head of Maintenance Strategy and AMP Group at Cosmo Oil's Engineering Department.

After choosing Cognite Data Fusion for its refineries, it was used in August 2023 to build a digital twin of the refinery. The company is now using AI to perform predictive maintenance on rotating machinery abnormalities, and its efforts are improving



Refinery equipment P&ID diagram. © Cosmo Oil



A 3D virtual reality view of the refinery digital twin. © Cosmo Oil

day by day. The AI identifies issues, generates alerts, and proposes options for resolution.

Extending the value of the platform is Cosmo Oil's Reliability Center of Excellence (RCoE), a centralized hub for maintenance operations. The integrated monitoring room enables collaborative maintenance by skilled engineers at the

plants. Interactive P&IDs and a dashboard dedicated to monitoring rotating machines further elevate productivity.

"By consolidating the three refineries into one virtual space, we can obtain data from Sakai, Chiba, and Yokkaichi, all from the Tokyo headquarters. This allows us to support maintenance operations for all refineries while in Tokyo or enable

engineers from Chiba and Yokkaichi to collaborate on troubleshooting in Sakai," explained Mr. Yoshii.

Wide-Ranging Benefits

With Cognite Data Fusion, Cosmo Oil realizes savings at multiple levels:

- Cut engineers' data-collection time, which was consuming 70 to 80% of their day.
- Reduced data-prompt formatting from 1 to 2 hours in the field to 10 minutes at a desk.
- Lowered unplanned downtime through remote monitoring and predictive maintenance.
- Delivered instant data access, cutting comparison time from over an hour to about 5 minutes.
- Reduced reliance on veteran engineers' judgment by enabling data-driven decisions.
- Provided quick field insight from a laptop, speeding planning for installs and modifications.
- Reduced exposure to hazardous areas through VR-enabled remote access.

"By integrating the vast volumes of data generated daily, we have constructed a comprehensive digital plant for collaborative maintenance," explained Noriko Rzonca, Chief Digital Officer of Cosmo Energy Holdings. "This digital plant empowers us to apply AI and machine learning to predict the condition of equipment, enabling predictive maintenance. As a result, we are optimizing production processes, enhancing safety, maximizing productivity, and enabling work remotely."

Looking forward, Cosmo Oil is considering introducing Cognite InRobot to use robots in on-site inspection work, helping the company become a more flexible and resilient organization. **NED**

Learn more about Cosmo Oil and Cognite: <https://www.newequipment.com/55331182>

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WORKPLACE EXOSKELETONS: 4 Myths That Need to Go

Misconceptions are holding back one of the most promising safety technologies in the industry. Here's what's fact—and what's fiction.

By Matthew Yandell, Ph.D.



All images © HeroWear, LLC

Exoskeletons: A word often misunderstood, thanks to sci-fi portrayals, rapidly advancing technology, and misinformation. However, in warehousing and adjacent industries, this word is slowly but surely becoming synonymous with practical safety and injury reduction.

Occupational exoskeletons (exos) are becoming popular in workplaces as wearable assistive devices, but there are still many myths and misconceptions

surrounding the safety technology. There are harmful misrepresentations floating around that insinuate incomplete ideas. Some overestimate the capabilities, such as “all exos give you superhuman strength,” while others underestimate the current state of the technology, believing “exos limit range of motion and are too hard to implement into a workforce.”

Not only are these notions false, but they are also likely to prohibit the

adoption of new, impactful safety technology for many industries that can save thousands of workers from discomfort and strain. Workers who bend and lift heavy materials repeatedly put an immense amount of stress on their spines every day, causing strain and musculoskeletal disorders (MSDs). This strain is often due to overexertion, which is the number one cause of injury for workers in the U.S. in logistics, manufacturing, retail, and other industries. But that strain can be dramatically eased with new exos.

As a relatively new type of safety technology being adopted and deployed across workplaces, misinformation around the wearable device can be a result of innocent confusion and simple misunderstanding about what an occupational exo is, and what it isn't. Academic and industry research are paving the way for a better industry understanding of the occupational exoskeleton, and support the idea that exos are impactful in reducing injury risk, increasing productivity, and more.

Becoming well-informed and opposing the spreading of misinformation about innovative safety technology isn't only beneficial for one's own knowledge, but can also help a broad spectrum of workers and leaders down the road. Letting the facts speak for themselves, here are four common misconceptions about occupational exos in the workplace:

Myth #1: All exos are bulky, uncomfortable, and limit your range of motion

This misconception often stems from an incomplete understanding of the different types of exoskeletons available. The truth is, not all exos are designed the same.

Exos can be classified in a couple of ways: by their structure or by their power source.

Structure

Rigid exos have a firm frame that can sometimes be bulky and limit movement. In contrast, **soft exos** (or “exosuits”) are made from flexible, textile-based materials that prioritize user comfort and a full range of motion. Soft exos are often a better choice for jobs that require bending and twisting.

Power Source

Elastic exos (passive exos) use springs or elastics for assistance. They are lightweight, making them suitable for long shifts. **Motorized exos** (powered exos) use a battery or motor to provide assistance, which is useful for “locking” a user into a sustained posture. However, motorized exos are much heavier and are often bulkier due to motors, batteries, and other components.

The key to successful adoption is selecting the right type of exoskeleton for the



specific tasks and environment while piloting it with your workforce to ensure that it's comfortable to use for a full day's work.

Myth #2: Exoskeletons give you superhuman strength

Contrary to what you might see in science fiction, exoskeletons are designed to assist workers, not to give them “superhuman strength” to lift heavier loads. The goal is to make a job safer and reduce the risk of injury.

Studies show that exoskeletons are most effective at reducing injury risk and fatigue when the weight being lifted remains constant while the exo assists. In fact, most back-assist exos are designed to offload a maximum of 10 to 40% of the strain on a worker's back. Trying to provide more assistance can actually be uncomfortable for the user.

While reduced fatigue can give a worker more energy, studies have shown that the ideal use of an exo yields strain reduction—not increased lifting capacity—which helps workers feel less tired at the end of the day and dramatically lowers the risk of musculoskeletal disorders.

Myth #3: Exos are a one-size-fits-all solution for a workforce

While some exoskeletons are highly adjustable, a one-size-fits-all solution does not work for everyone (they are, at best, one-size-fits-most). Workers are a variety



of sizes and shapes, so a successful exoskeleton program requires a model that can accommodate this diverse workforce.

The amount of adjustability an exo provides is crucial for comfort and user adoption, especially given that workers will be working rigorously and often for long

hours. Exos that use modular designs that can be customized to fit users and their varying sizes are usually the most successful, due to their ability to fit a large range of worker sizes by swapping out components. Generally, rigid and motorized exos have less adjustability than their soft counterparts due to their design constraints.

Comfort is a critical factor for adoption, so leaders should thoroughly research different options to find a solution that can be tailored to the unique needs of their workforce. An exo needs to fit well for it to do its job protecting the worker.

Myth #4: It's too difficult to implement an exoskeleton program

No matter the industry, change management can be very difficult when implementing any new policies or programs. Exos are no exception, but that does not mean it's impossible to implement a workforce-wide wearable safety tech program. In fact, there are many companies successfully deploying exos in large numbers today, with sustained high adoption rates among large workforces.

Training both workers and leaders in the workplace is critical to ensure an exo deployment is successful. Any new technology or process deployment will require training to align on expectations and best practices, and to support the

new way of doing things. When leaders know the answer to questions, can help with training, and understand the benefits of a new safety program, workers often feel more supported and confident, making them more likely to embrace the new technology.

The initial skepticism that workers exhibit when new technology is presented to a workforce is valid and understandable. But once workers see how safety tech like exos can benefit their lives in and outside of work—and how they are supported with solid change management—they will come around to the idea after experiencing it for themselves. For leaders, understanding the benefits for workers can amplify the opportunity for productivity boosts, leading to quick ROI and overall savings.

Safety technology is evolving quickly, so it's important to stay educated and find the right tech for your workers. Learning about different types of exos, their benefits and challenges, plus how to implement them among a workforce, can help companies make the best, most informed decisions for workers. [NED](#)

Matthew Yandell, Ph.D., is the CINO and co-founder of HeroWear. An engineer and hands-on innovator, Matt is a co-inventor of HeroWear's core technology and oversees the development and testing of its product line. He attended Vanderbilt University.



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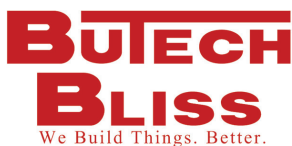
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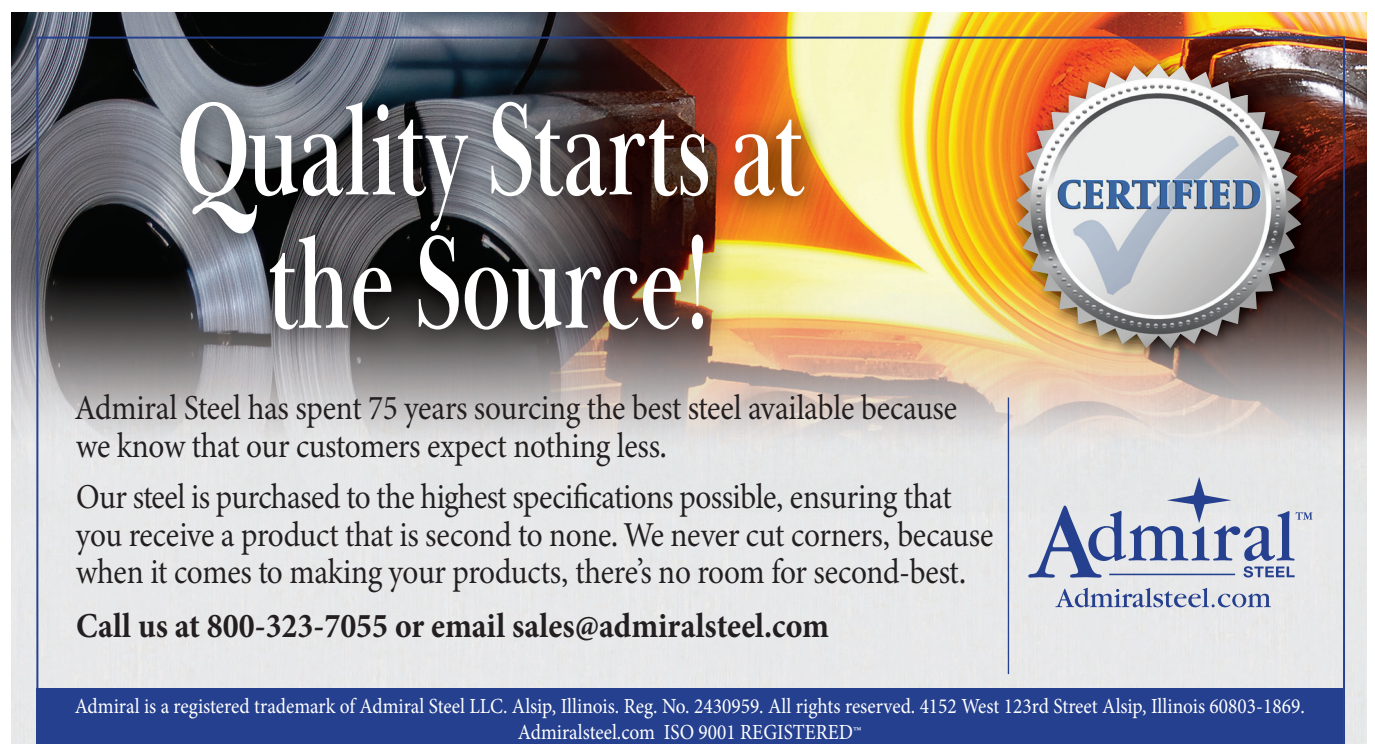
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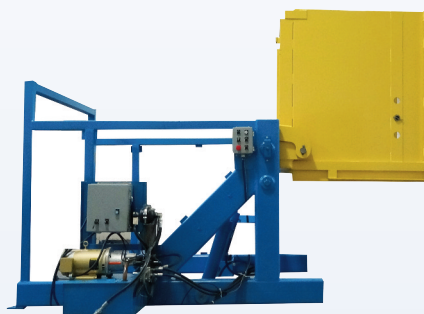
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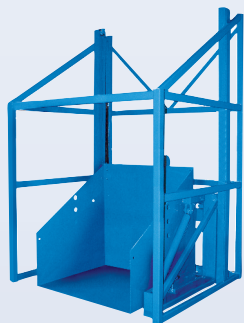
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FROM THE COVER



Touch Screen Gloves Combine Cut Protection and Dexterity

SmartCut BKCRT201 Gloves provide hand protection while allowing the ability to operate touchscreen devices. These medium-duty gloves combine dexterity, grip, and cut resistance with touch screen capability, allowing users to interact with devices without removing their gloves.

Constructed from ultra-high molecular-weight polyethylene fiber, the gloves provide ANSI cut resistance level 2 protection. The 13-gauge material enhances flexibility and tactile sensitivity for detailed tasks. A polyurethane (PU) coating on the palm and fingers improves grip while adding puncture protection and abrasion resistance.

The gloves feature an uncoated back and wrist for ventilation, along with a seamless and stretchable full knit wrist that ensures a secure fit and prevents dirt, debris, or cold air from entering. The cuffs are also color-coded to provide wearers with quick size identification.

Brass Knuckle Safety Products

More online: newequipment.com/55326619

2-in-1 Material Lifts With Standard and Counterbalance Modes

JET's Material Lifts line delivers 2-lifts-in-1 functionality, combining standard and counterbalance lift modes in a single platform. The lifts are available in 12, 18, and 24 ft (3.7, 5.5, and 7.3 m) models, each with a 650 lb (295 kg) load capacity. The lifts have a counterbalance mode for unrestricted wall access, while a drill-compatible winch provides faster lifting. 6-in casters enhance mobility across job sites, and forklift pockets enable safe loading and unloading.



JET Tools

More online: newequipment.com/55326485

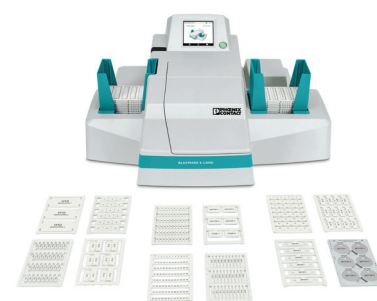


All Profile Cutter (APC) Robotic Plasma Coping System Delivers Unlimited Cutting Freedom

Combining a 360-degree rotating robot, a next-generation gripper, and the Hypertherm XPR300 plasma source with true hole technology, the **APC robotic plasma coping system** delivers precise cutting across all common steel profiles, pipes, and hollow sections. Features include specialized cutting routines for weld preps and ratholes, a high-speed 3D laser scanning system for precise measurement, integrated fume extraction, and a quick-disconnect torch. The CNC robotic 7-axis plasma cutter and compact design maximize throughput and shop efficiency.

HGG Group

More online: newequipment.com/55309383



Auto Marking Printer for High-Volume Labeling

The **BLUEMARK E.CARD UV ink-jet printer** for high-volume labeling automatically detects whether inserted cards are plastic or metal and adjusts the ink composition for each material, producing 600-dpi resolution results. Processing up to 40 cards/load, each card takes less than 53 s to print. The system detects unsorted or misordered cards and prints them in the correct sequence. The thermal inkjet technology and UV LED-curing inks create wipe-proof, scratch-proof, and chemical-resistant markings.

Phoenix Contact

More online: newequipment.com/55316561



AI Welding Tech Eliminates Overwelding

Compatible with leading robot systems, **NovAI AI-powered welding automation platform** uses computer vision and real-time adaptation to adjust weld parameters, improving consistency, quality, and traceability. It eliminates overwelding and lowers scrap and fixturing costs. Manual setup/pre-scanning is also eliminated, shortening production times and reliance on highly skilled operators. The suite includes several integrated technologies: NovAI Capture, NovAI Control, NovAI Autonomy, and NovSync Dashboard.

Novarc Technologies, Inc.

More online: newequipment.com/55318559

3D Printing Resin Delivers Better Strength

PolyJet ToughONE is a new 3D printing material designed for functional prototyping and selected end-use parts. The material maintains the core benefits of PolyJet printing, including smooth surfaces, multimaterial capability, and full-color realism, while adding toughness and durability. The material provides enhanced impact resistance and flexibility that allow for drillable, millable, and self-tapping features. It supports the production of accurate manufacturing aids, jigs, and fixtures, with options for color labeling. Additional uses include custom housings, brackets, covers for consumer electronics, impact-resistant components, and robotic end-effectors.

The material can produce complex geometries, including thin walls, snap fits, and living hinges, while maintaining dimensional accuracy and surface quality. It integrates with other PolyJet materials to enable hybrid models that combine varying mechanical properties or colors in a single part.

Stratasys

More online: newequipment.com/55310895



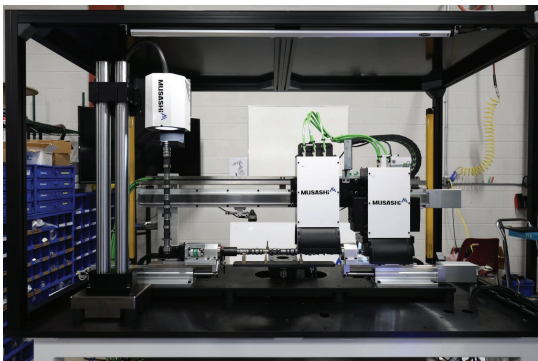


Automate Sheet Metal Transport

The **Material Flow Starter Kit** automates material transport in sheet metal production without requiring fully digitized operations, using mobile robots to move palletized materials between machines, workstations, and shipping areas. Operated through an app on any mobile device, employees can request a vehicle to load workpieces without leaving their workstation. Each robot can serve up to 9 stations, support up to 8 transfer points/station, and have a capacity of up to 1 ton (907 kg).

TRUMPF

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Automated Inspection System Lets You Easily Add Inspection Flows Anywhere

The **Gen 2 Automated Inspection System** is an AI-based automated visual inspection platform that helps manufacturers easily deploy automated inspection flows in their operations. Manufacturers can integrate their preferred PLCs, safety systems, and robot brands, and the system can be managed entirely by the manufacturer or jointly with a selected integration partner. Hardware and software components use deep learning and data insights to improve part quality on complex components while reducing production costs.

Musashi AI

More online: newequipment.com/55323299



Battery Welder for All-Day Welding

Venture 150 S is a battery-powered stick/TIG welder designed for welders in remote, tight, or challenging environments. Its swappable batteries allow for extended operation without reliance on external power, enhancing mobility and productivity on the job site. It can save up to 250 hours per year by reducing setup time—eliminating the average 150 hours spent running leads and cutting an additional 100 hours lost to downtime from tripped breakers.

Miller Electric Mfg.

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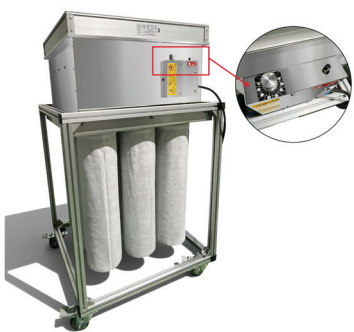
Field Laptop With All-Day AI Power

Designed for professionals in industries such as defense, utilities, and automotive, the **V120 laptop** features a convertible-hinge design that allows tablet-style use, while using the latest technology to support AI applications and multitasking. Connectivity includes two Thunderbolt 4 Type-C ports, Wi-Fi 7, Bluetooth 5.4, GPS, and 4G LTE/5G. The 12-in display offers smart touch and sunlight readability. Hot-swappable battery technology allows continuous operation with a host of security measures to meet different application needs. Users have the options of handles, straps, and mounting accessories for portability.



Getac Technology Corp.

More online: newequipment.com/55313559



Beyond-HEPA Mobile Air Filtration

The **ACU portable air clean unit**, designed to improve indoor air quality and control contamination combines high-efficiency particulate filtration with customizable molecular media to address airborne contaminants that aren't captured by standard carbon filters. Able to be relocated wherever contamination occurs, the unit supports HEPA H13 and optional ULPA filtration stages, delivering up to 99.999% removal efficiency. Reducing waste, the unit offers refillable trays, pleated, or sponge formats of CHEMSORB media. The unit targets acids, bases, VOCs, ozone, reactive compounds, and gases containing boron or phosphorus.

GE Technology, Inc. (Getek)

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3D Printers Enable AI Error Detection

The **K2 and K2 Pro FDM 3D printers** offer high-precision, multicolor, and multimaterial printing. Both models support up to 16 colors with CFS integration and feature Smart Auto Leveling for efficient setup. The K2 Pro adds active chamber heating up to 140°F (60°C) and a nozzle-mounted AI camera for advanced error detection, making it suitable for demanding engineering filaments and continuous production environments.

Creality Co., Ltd.

More online: newequipment.com/55312198

Basic Stacker for Cost-Effective Material Handling

The **RBS26-F Stacker** is a lithium-ion-powered forklift stacker for skids, crates, containers, and platforms without bottom boards, providing a cost-effective option for material handling. Capable of lifting loads from 1,480 to 2,600 lb (670 to 1,200 kg) to heights between 72 and 114 in (2 to 3 m), the stacker offers electric travel,



and lift and lower functions to move and stack products quickly. Options such as turtle speed, creep mode, and dual thumb controls improve handling in confined or complex spaces.

The Raymond Corporation

More online:
newequipment.com/55313992



Flexible and Reliable Anchor for Any Height

The **BeamLock Premium Anchor** is a lightweight aluminum anchorage connector for secure and flexible attachment to a wide range of beams, with easy installation and removal at any orientation. It supports beam flanges from 4 to 14 in (10.2 to 35.6 cm) through single and dual-side adjustment. Replaceable composite wear pads provide smoother movement, a 360° swivel D-ring minimizes wear, and the UV and scratch-resistant label ensures long-term visibility and compliance. Meets ANSI Z359.18-2017, OSHA 1910.140, OSHA 1926.502, and CSA Z359.15-2017 standards.

FallTech

More online:
newequipment.com/55329594

Development Kits for Smarter Robots

Aetina Preview Kits are development systems for advanced robotics and physical AI applications, built on the NVIDIA Jetson Thor platform featuring Jetson T5000 modules that combine high-performance computing, real-time control, and low-latency multisensor fusion. Operating within a 130 W power envelope, Jetson Thor runs generative AI models, including foundation models, with ultra-low latency. Its ability to run large language models and vision language models provides advanced inference and adaptability for human-robot interaction and physical AI.

Aetina USA Corporation



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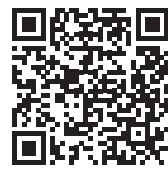


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Exchangeable Tip Drill

The **X-Tip Drill** is an exchangeable tip drill that simplifies holmaking by replacing multiple solid carbide drills with a single hardened steel drill body and a selection of recyclable carbide tips that can be quickly swapped to match different materials and depths. The high-feed geometry creates faster, cleaner holes, while the quick-change design minimizes setup time and tool inventory.

Seco Tools, LLC

More online: newequipment.com/55326504

FROM THE COVER



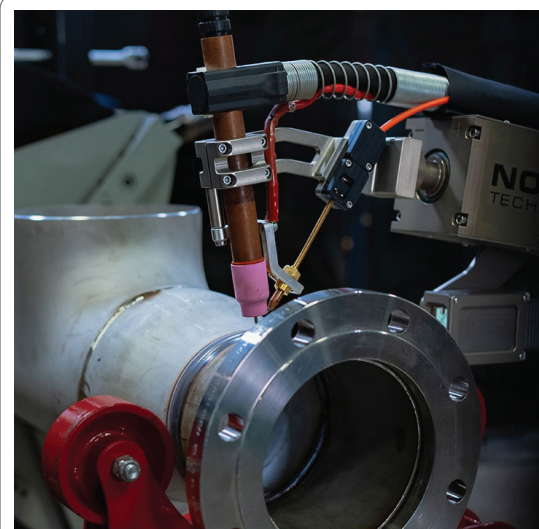
Wearable Keeps Workers Safe From Heat Stress

Safeguarding workers from heat strain and stress, the **eq LifeBand** heat injury protection armband monitors core body temperature for workers in demanding environments. The lightweight, wearable device issues alerts and notifications when thresholds for heat stress or exertion are reached. Hydration prompts remind users to maintain proper fluid intake, while integrated WBGT (Wet Bulb Globe Temperature) monitoring generates automated, tailored work-rest plans for teams.

The eq LifeBand can also be used with Equivital's Black Ghost V2 platform for data collection, analysis, and reporting, enabling organizations to make informed decisions and implement proactive safety measures. Fully compliant with ACGIH heat stress guidelines, it supports multiple heat stress algorithms for flexible inclusion in customized safety programs. It also features on-device, configurable local alerts and personalization options.

Equivital, Ltd.

More online: newequipment.com/55330067



Autonomous TIG Welding Robot

SWR+TIPTIG Autonomy is a welding robot that performs high-precision TIG welding autonomously. The system produces X-ray-quality TIG root welds while operating at the speed and throughput typical of MIG welding. The robot achieves higher deposition rates with a 2.6x increase in weld deposition and up to 4 lb/h (1.8 kg/h). Travel speeds can increase by up to 300% compared to conventional TIG systems. Its TIG precision reduces spatter, oxidation, and discoloration, resulting in welds that meet hygienic standards with minimal post-weld cleaning. The unit has a compact footprint of 4 x 4 ft (1.2 x 1.2 m) and can be configured with up to four positioners to maximize shop space and productivity for pipe fabrication and other welding applications.

Novarc Technologies, Inc.

More online: newequipment.com/55318418

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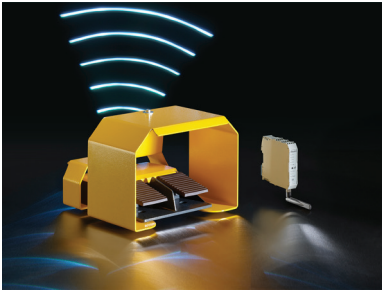


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Wireless Foot Switch With Protective Shield

The **RF GFS 2 XL** wireless foot switch eliminates cable damage from weld spatter and reduces tripping hazards during operation. The foot switch has an extra-large, powder-coated steel protective shield that accommodates reinforced safety shoes while allowing free pedal movement. It also prevents accidental pedal activation and includes a carrying handle. The sWave 2.4LE-IND wireless technology enables indoor ranges of up to 150 ft (45 m).

steute Industrial Controls

More online:
newequipment.com/55329717



Efficient, Precise Bending Machines

TruBend 3000 Series Press Brake bending machines process a wide range of sheet metal components. The redesigned series reduces cycle times by ~40% compared to the previous models, and offers press forces ranging from 93 to 253.5 tons (84 to 230 t) and bending lengths from 6.5 to 13 ft (2 to 4 m). The machines feature an ACB Laser automatic angle measuring system, a speed-controlled On-Demand Servo Drive, and a BendGuard safety presence sensing system. Programming software allows real-time or offline programming.

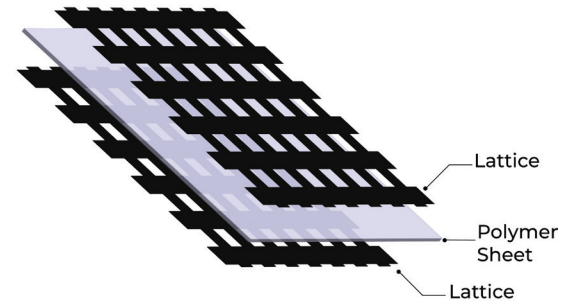
TRUMPF

More online:
newequipment.com/55318387

Composite Panels Replace Sheet Metal

FLEXSPEC is a high-performance thermoformable sheet that's comprised of a lattice with heavy-gauge plastic sheeting, offering lightweight structural panels that can be used as an alternative to sheet metal. Achieving the same bending stiffness as steel and aluminum sheet metal gauges, the panels increase load capacity by up to 8x while reducing weight by as much as 70%. Full sheets are available in 4 x 8 ft (1 x 2 m) and half sheets in 4 x 4 ft (1 x 1 m). Material variants include PP, PA6, and HDPE.

WEAV3D, Inc.



More online: newequipment.com/55322082

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The new Turbo Series alarms featuring PushLok Technology not only make installation a simple one-step process, but also offer a NEMA 4-X water-tight seal. Available in more than 200 variations, offering multiple tone-types, voltages and terminations.

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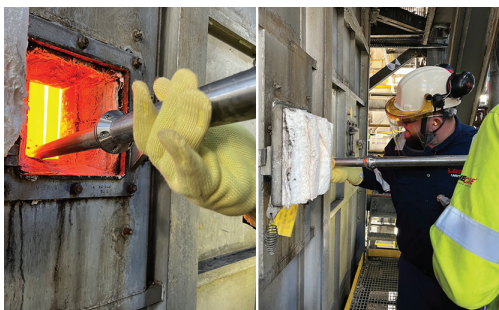


View the entire line at
FloydBell.com

Configurable Furnace Temperature Probe

AMETEK Land's Modular Gold Cup Probe is a furnace tube temperature measurement tool for use inside compact or uniquely shaped heaters and furnaces. It builds on the original Gold Cup Probe, which measures true tube temperatures through internal reflection to provide accurate emissivity data. The design allows users to configure the probe into different shapes to suit a range of furnace types, eliminating the need to purchase multiple probes. The length of the probe can be selected up to 10 ft (3 m) and captures live temperature readings requiring shutdowns.

AMETEK Land



More online: newequipment.com/55315060

Ready-to-Build Storage Unit

PIX Essentials Twin 48 offers warehouses an affordable, durable, and ready-to-build storage unit. Starting at \$200, the unit provides 48 pick faces—24 per side—for high-volume operations. Manufactured from Pallite's honeycomb cardboard, the unit offers strength with a lightweight structure, supporting up to 500 lb (227 kg) with 30 lb (14 kg) per pick face. Units are designed to sit securely on a pallet.



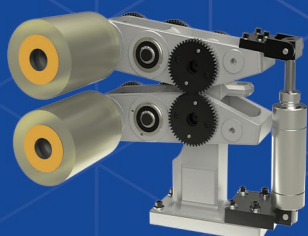
Pallite, Inc.

More online:
newequipment.com/55323425



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Exowatt P3 Modular Energy System Delivers 24-Hour Renewable Power

The Exowatt P3 is a modular energy generation and storage system that delivers both dispatchable electricity and high-temperature thermal energy. Designed for data centers and other energy-intensive industrial applications, the system combines solar energy collection with long-duration heat storage to provide a continuous renewable power supply.

Each unit fits within a 40 ft (12 m) shipping container footprint and is designed for minimal maintenance, aligning with the operational needs of facilities seeking to lower both energy costs and carbon emissions. The system can store energy for up to 24 hours of daily dispatch and scales easily to accommodate projects of varying sizes. It delivers electricity at a cost of under 4 cents/kWh, helping reduce energy expenses and CO₂ emissions for large-scale projects.

Exowatt

More online:
newequipment.com/55325167



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Color-Coded Wiring Connector System

Color-Keyed aluminum narrow-tongue, long-barrel, two-hole lugs provide a lightweight, economical alternative to copper lugs, reducing electrical installation costs. The narrow design allows larger gauge wires to be terminated in tight spaces, while the chamfered barrel helps prevent wire hang-ups and improves crimping efficiency. Dual-rated for aluminum and copper conductors, a single lug can accommodate a wide range of cable sizes. The lugs weigh less than copper alternatives, offering easier handling during installation.



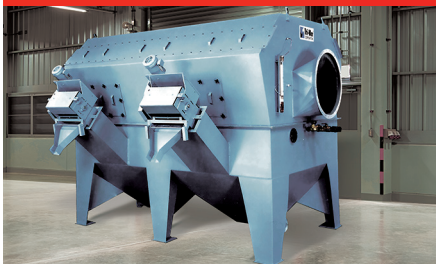
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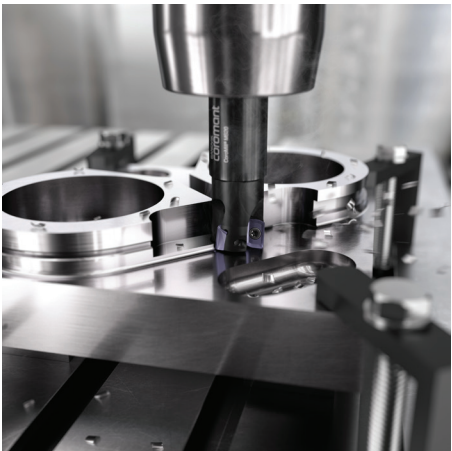
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Shoulder Milling Cutter Enhances Steel Machining Precision

The **CoroMill MS20** 90-degree shoulder milling cutter precisely machines steel and other ISO P materials. The cutter body ensures minimal runout, improves component quality, and reduces scrap rates. Available cutter body diameters range from 0.62 to 3.31 in (15.8 to 84 mm) with a cylindrical shank option that integrates dampening technology. Inserts for steel, stainless steel, and heat-resistant super alloys make the cutter suitable for shoulder milling, face milling, linear and helical ramping, slotting, and plunging operations.



Sandvik Coromant

More online: newequipment.com/55325526

FROM THE COVER



Wireless, Transparent Machine Guarding

A-GUARD is a modular machine guarding system with wireless technology and clear polymer panels that maintain unobstructed sightlines to machinery and processes while providing full protection from potential hazards. Real-time monitoring tracks panel removal and impacts, helping safety managers identify access patterns and adjust maintenance schedules as needed.

A-GUARD adapts on-site to changing operational requirements, allowing instant modifications without complex reinstallation. Its lightweight, modular panels enable quick, custom configuration directly on the shop floor, reducing downtime and setup costs.

The system’s gapless construction supports compliance with modern safety standards related to finger protection and projectile prevention. Real-time alerts and access tracking further strengthen risk management, helping facilities proactively prevent safety breaches.

A-SAFE

More online: newequipment.com/55329696

jESCO TOWABLE ROTATOR BOX



Designed for the collection and storage of bulk materials, the wishbone style towing tongue allows for towing at up to 4 mph. Rolls on 8" x 2½" polyurethane casters. Four different sizes are available to handle all your bulk handling of your material. Fork openings are 3" x 8" to be dumped with a rotating forklift attachment. The box seams are continuously welded.

Many facilities use rack ends for staging or holding area for pallets prior to their final placement. These guards are designed to protect end rack areas from damage which may occur when a forklift tries to test your rack ends.



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High-Capacity Diesel Pneumatic Forklift

The DV160S-9 diesel pneumatic tire forklift provides a load capacity of up to 36,000 lb (1,600 kg), boosting productivity with a high-output diesel engine. Offering increased control for operators, the forklift features travel speeds of 21 to 24 mph (33 to 38 km/h), lift speeds of 76 to 90 ft/min (23 to 27 m/min), and a tight turning radius of 200 in (510 cm). Its adjustable suspension seat and redesigned floating cab support more visibility for operators.

Bobcat Company



More online: newequipment.com/55276791

Mobile Turnstile Enables Fast Jobsite Security

The Turnlock 100 Mobile Platform is a full-height turnstile built on a forklift-ready steel base for portable, temporary access control. It offers a secure barrier against unauthorized entry without requiring permanent infrastructure like trenching or anchoring. Designed for evolving site conditions, it supports access systems such as card readers or biometrics and features weather-resistant construction for outdoor use.



Boon Edam, Inc.

More online: newequipment.com/55296568

Workholding Pull Clamps Prevent Overtightening

Fixtureworks' Stablelock Pull Clamps (QLPD) offer quick and secure fastening in repetitive machining operations. Each unit consists of a clamp base used with clamping screws and mounts to hold the workpiece, allowing the machined surface to remain accessible to the cutting tool. With constant clamping force, the handle provides a click feel to prevent overtightening. The clamps have a center-to-top hole length of 4 in (100 mm) and a center-to-body length of 2 in (43.5 mm). Maximum clamping force reaches 675 lb (306 kg).



Fixtureworks

More online: newequipment.com/55313972



Heavyweight Robot for Tight Spaces

The M-950iA heavyweight industrial robot handles payloads up to 1,102 lb (500 kg) with wide-range motion and precision. This serial-link robot offers more flexibility than standard parallel-link robots, making it work well for tight workspaces and variable layouts. The robot features a high-rigidity design that can handle large and heavy workpieces, including automotive components, construction materials, and EV battery packs. Its 9 ft (3 m) reach combines with a wide motion range on the J3 axis, allowing the robot to flip over backwards.

FANUC America Corporation

More online: newequipment.com/55314256

Cobot Welder for Complex Joints

The Copilot Builder collaborative robot welding system handles challenging welds with flexibility by mounting essential components on a portable pallet that can be detached and reconfigured to fit specific workspace layouts and flow requirements. The system includes technologies such as touch sensing, which uses voltage detection to identify workpiece location and ensure weld accuracy, and through-the-arc seam tracking, which auto-adjusts torch position to maintain consistent quality. Multipass software lets operators program, save, and recall weld passes, and combine them into weld recipes for rooting, filling, and capping large joints.



Miller Electric Mfg.

More online: newequipment.com/55319796

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How-To-Use Video

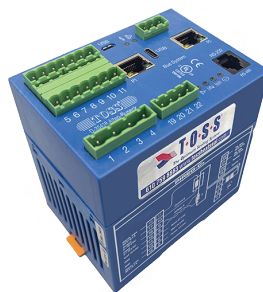


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Heat Seal Controller Integrates With PROFINET

The **C2-210 Heat Seal Controller** is a DIN rail-mounted, in-cabinet unit that uses microprocessor technology to measure heating element resistance for rapid and accurate temperature control. This method eliminates the need for thermocouples or RTDs, minimizing error and downtime. PROFINET connectivity enables advanced digital control and smooth integration into industrial networks for various sealing applications, including form/fill/seal, pouch filling, web splicing, and film wrapping.



TOSS Machine Components, Inc.

More online: newequipment.com/55308171

High-Efficiency BESS Chillers

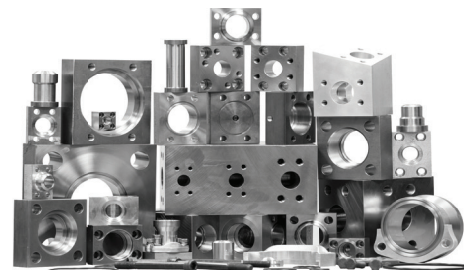
The **VLV 4-12** and **DMC 8.0** compact chillers for BESS provide precise and efficient battery temperature control. The VLV 4-12 Chiller is an off-grid unit that integrates directly inside BESS containers or cabinets, operating on direct DC power from 570 to 800V. It includes an internal heater to maintain minimum temperatures during winter operation. The DMC 8.0 Chiller offers a door-mounted, wall-mounted, or semi-recessed installation. It has an inverter-driven compressor and EC fans for accurate temperature control and low noise levels.



Pfannenberg USA, Inc.

More online: newequipment.com/55326499

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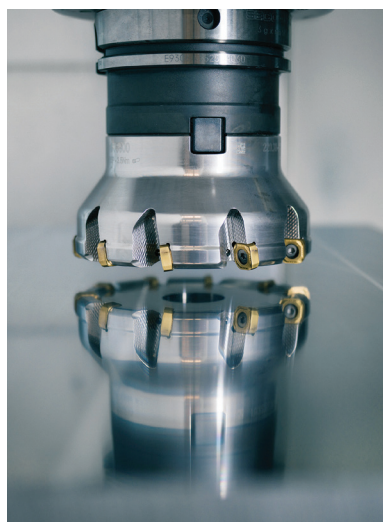


Coverall for Flame and Chemical Resistance

Tychem 6000 SFR is a lightweight hooded coverall for workers in refineries, petrochemical plants, laboratories, maintenance operations, and fire departments. The coverall provides at least 30 min of protection against more than 250 chemicals, including toxic industrial chemicals, chemical warfare agents, and flammable organic solvents. When worn over primary FR garments, users get secondary flame resistance. The design includes a respirator-fit hood with a covered elastic face opening, taped seams, and a double storm flap closure with double-sided adhesive tape to help prevent chemical ingress.

DuPont

More online:
newequipment.com/55328622



Finishing Face Mill System

The **.38 Finishing Face Mill** system is a line of cutters for high-precision surface finishing and includes three variants—fixed pocket, hybrid, and adjustable—designed to balance control, flexibility, and ease of use across different finishing requirements. Two insert types are available: one with an 88-deg. lead angle for near-wall machining and another with a 27-deg. lead angle for high-feed, open-surface applications. This range allows operators to address varied surface finishing challenges with a single system.

Seco Tools, LLC

More online:
newequipment.com/55317380



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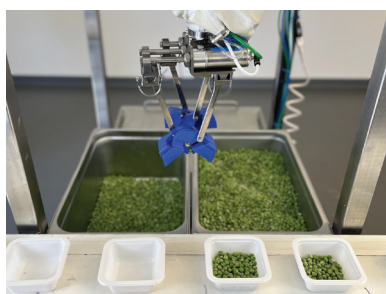


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Food Robot Automates Meal Assembly

The **Chef Robotics Food Robot** is an AI-enabled system for meal assembly in food manufacturing. Combining off-the-shelf hardware with proprietary ChefOS software, it provides flexible, high-mix automation. The C-001748 module is NSF/ANSI 169 certified for food safety and washdown operations, and is the only NSF-certified "Food Portioning Robotic Module."

Its multideposit feature allows two or three utensils to operate at once, boosting throughput to 30+ trays/min. AI software ensures consistent portioning and predicts tray arrival when the camera view is blocked. The robot handles scoopable foods, IQF items, small and large portions, and various tray types, working alongside employees on conveyors. Compact and mobile, it operates on 120V, compressed air, and Wi-Fi without line retrofitting.

Chef Robotics, Inc.

More online:
newequipment.com/55314287

Kollmorgen Essentials Motion System Simplifies Precision Servo Control

The **Kollmorgen Essentials motion system** is a pre-configured servo motion solution that simplifies high-performance motion control for a wide range of industrial axes. Each system includes a matched servo drive, servo motor with integrated multi-turn absolute feedback,



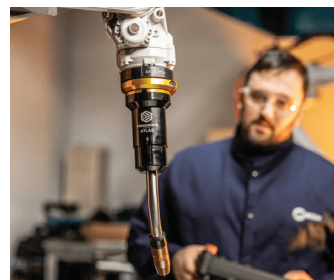
and a combined power/data cable. The servo drive supports multiple communication protocols, and multi-axis synchronization is available through CIP Sync, PROFINET IRT, or EtherCAT. Drives are available for supply voltages of 120 to 240 or 240 to 480V AC and deliver continuous power up to 4,000 W at 3, 6, or 12 A. Servo motors are rated for 120, 240, 400, or 480V AC and power levels from 200 to 4,000 W, with a rated speed of 3,000 rpm and peak speeds up to 6,000 rpm.

Kollmorgen

More online: newequipment.com/55323887

Robotic Air-Cooled MIG Torch

The **Atlas Robotic MIG Torch** is an air-cooled ThruArm GMAW torch for robotic welding applications that offers consistent precision, simplified maintenance, and increased uptime. The keyed stainless steel neck construction offers rigidity and long-lasting positional accuracy for repeatable TCP. Mechanical and electrical functions are isolated and separated, while a direct neck-to-cable connection reduces potential performance issues. Features such as captured fasteners, inspection windows, and installation confirmation indicators help reduce service time and simplify training.



Tregaskiss

More online: newequipment.com/55319172



Rotary Lobe Pump Maximizes Flow and Efficiency

The **TORNADO T1 XXL-B-F Rotary Lobe Pump** handles large-scale, high-flow pumping applications, delivering flow rates up to 6,160 gpm (1,400 m³/h) and differential pressures up to 174 psi (12 bar). Available in 3 sizes—2F, 4F, and 6F—the pump offers high energy efficiency and dry installation flexibility. It's suited for handling diverse media in wastewater treatment, biogas, membrane filtration, pulp and paper, and refining operations. Full Service-In-Place access allows all wetted parts to be replaced from the front without disconnecting piping.

NETZSCH Pumps USA

More online:
newequipment.com/55323908

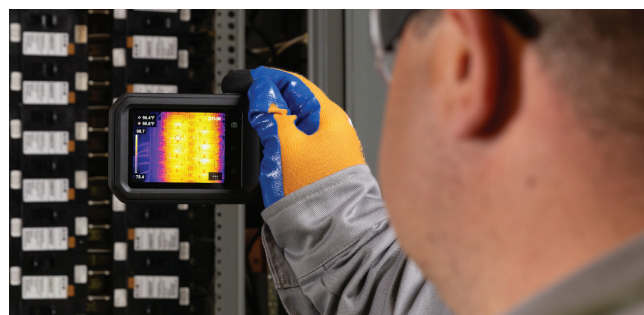


LONG-LIFE BELTS MOVE HEAVY LOADS

When a competitor's belts failed after only nine months service in a large postal distribution center, Dura-Belt's **Long-Life HT belts** replaced them. **Nine years** later, HT belts are still going strong -- moving your mail on conveyors that run 24 hours/day, 7 days/week.

Even though some postal tubs have soft bottoms and carry over-weight loads, HT belts take the punishment and keep the mail moving. Over **120 million** are in service on powered-roller conveyor systems. For longer-life and heavier loads, try time-tested HT (high tension) O-ring belts -- the only ones colored **"Post Office Blue"**.

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Compact Thermal Imaging Camera

Featuring a 320 x 240 thermal resolution, a 35-degree horizontal field of view, and MSX detail enhancement technology, the **C8 thermal imaging camera** produces sharp images to detect faults quickly and accurately. The C8 supports a temperature range from 0 to 450°F (0 to 232°C) with an accuracy of $\pm 2^\circ\text{C}$, and high sensitivity (NETD <50 mK). A 5 MP visual camera with digital zoom enables detailed inspections in hard-to-reach areas. Easily integrate with Flir Ignite Pro cloud software for automatic uploads and advanced reporting templates, along with collaboration and secure storage.

Teledyne FLIR, LLC

More online: newequipment.com/55315082



Quick-Change Pallet Supports Dual Patterns

The **Quick-Loc QL2 combination pallet** is a modular quick-change fixture system featuring both 52 and 96 mm (2 and 3.7 in) hole patterns in a single unit. This dual compatibility expands application flexibility for users who work with multiple industry-standard setups. Designed for fast, repeatable changes, the system ensures 0.0003 in repeatability and nearly 14,000 lb (6,350 kg) of clamping force. It is compatible with horizontal, vertical, and rotary operations.

Jergens, Inc.

More online:
newequipment.com/55299493

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*Indicates ad is in the Forging Section



Industrial Methane Detector

The **MethaSense XP** methane detector for industrial environments combines advanced non-dispersive infrared (NDIR) sensor technology with a rugged build for use in demanding conditions. ATEX and IECEx certified for hazardous zones, MethaSense XP provides audible and visual alarms for on-site safety alerts, while wireless communication options enable remote visibility and connectivity. The product family also includes MethaSense, a compact detector for residential and commercial natural gas monitoring, and MethaSense Trace, a high-sensitivity detector for leak detection and repair (LDAR) and utility applications.

Teledyne Gas & Flame Detection

More online: newequipment.com/55310876



Variable Speed Bandsaw

The **JT1-1376 18" continuous variable speed vertical bandsaw** is designed for heavy-duty metal fabrication and large workpieces. Featuring an 18-in (46 cm) throat capacity and a BLDC motor, speed can be adjusted from 90 to 1,400 SFPM to match material type for a variety of cutting applications. With a table size of 20 x 21 in (51 x 53 in) and tilt capability, the saw can accommodate different projects.

JET Tools

More online: newequipment.com/55317695

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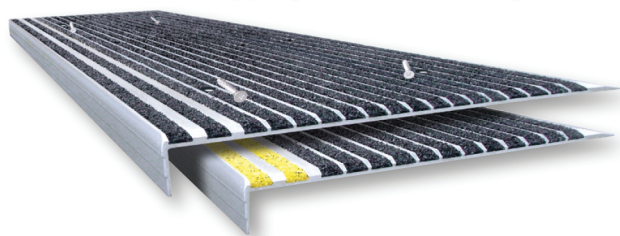
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A Quick Note on What's Ahead

Good news! NED will still be in print in 2026, which is something I take immense pride in, given today's digital landscape. Every year it feels like, "Will this be the year?" and every year I breathe a little easier when we're spared from the chopping block.

That's a testament to you—our readers—so thank you.

As an editor, I genuinely love print publishing. I love planning an issue, seeing the layout come together, editing the whole thing, and then having a mild panic attack the moment it goes to press because I'm convinced I need one last look at every word. That "healthy" paranoia never goes away; trust me. But I still love it.

Over the years, the magazine has gone through redesigns, new editors, and shifting content focuses. But at its core, we've stayed true to the same mission: delivering the latest products and solutions to help you begin your research, compare your options, discover new suppliers, and stay on top of where the industry is headed.

Sure, traditional digests aren't as common as they used to be, but the information we provide still matters. At the same time, being a brand focused strictly on products has always meant our coverage has natural limits—especially when compared to publications that can also dive into processes, training, leadership, and market analysis.

If you receive the print edition, you've likely noticed that NED has been bundled with Plant Services for the past year. Plant Services (PS) is our sister publication dedicated to maintenance and reliability—covering predictive maintenance, asset management, processes, and the world of industrial reliability. If you were starting a manufacturing operation from the ground up, PS would be your go-to resource for understanding what needs to be maintained, how to maintain it, and how to keep equipment running with minimal downtime. Think of PS as *This Old House* for manufacturing reliability.

NED and PS have been working closely together for years, sharing ideas and collaborating where our audiences naturally overlap. Where NED introduces the latest products and technologies—and how they're used—PS provides the maintenance and reliability insight required to support them. If you've enjoyed our Tech Toolbox column by Sheila Kennedy, that's PS content you've already been getting.

Which brings me to an update for 2026: NED and Plant Services will be combined into a single print magazine. Instead of receiving two separate issues, readers will now get one publication that features both brands.

To be absolutely clear: Plant Services is *not* going away.

Rather, we're bringing our strengths together in print so readers get both what's new and how to keep it running.

With this merge, we're also modernizing the page size of our magazine. As you know, our current tabloid-sized pages are...big. I love them, but it's time for a more modern magazine size. And yes, the smaller trim size is economical—no point in pretending otherwise—but rest assured, the amount of content isn't shrinking. Page dimensions may change, but the value inside won't. You'll receive the same product coverage you expect from NED, plus added insight from Plant Services in every issue.

Here's to 2026. I'm excited for what's ahead, and I can't wait to share it with you. Wishing you a wonderful holiday season—however you celebrate—and a very happy New Year.

— Laura Davis, Editor-in-Chief

FROM THE COVER



Exterior Security Doors

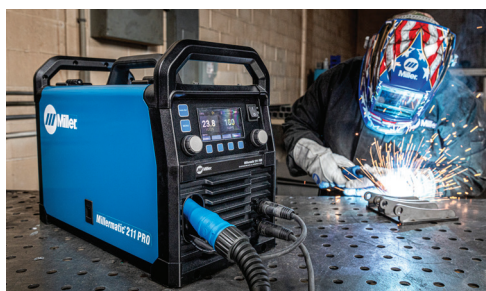
Raptor Rigid Security Doors for exterior industrial applications include the Raptor Rigid Security Door, Raptor Rigid High Speed Security Door, and Raptor Rigid High Speed XL Security Door. Each model features double-walled aluminum construction, advanced control technology, and safety integration.

The base springless model operates at speeds up to 30 in/s (76 cm/s), while high-speed models reach up to 80 in/s (203 cm/s), reducing wait times for forklift operators.

All doors feature the Door-Commander Advanced Controls panel with a SafeAlert system that provides a countdown before door closure, as well as a 6 ft (1.8 m) integrated light curtain in the side columns that detects objects or personnel throughout the door opening.

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