

A Supplement to AMT Magazine

# AMT

**Aircraft Maintenance Technology**

*Written by aircraft maintenance professionals  
for the professional maintenance team*

*Official publication for AMTSociety*

**November/December 2011**



## TOOLS AND EQUIPMENT



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Hand Tools

Products  
of the Month



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By Ronald Donner



## High-Tech Airplanes Require High-Tech Training and AMT's Annual Product Showcase

**W**elcome to the final issue of *AMT* for 2011. Where has this year gone? The last few months in particular seem like a blur. Recently the entire staff has all been very busy with the launch of [www.AviationPros.com](http://www.AviationPros.com), the new Cygnus Aviation web site. I hope by now you've had the chance to visit the new site.

Thanks to Barb Zuehlke *AMT's* senior editor for doing a great job of putting together this Product Showcase and Tools and Equipment supplement. While Barb has been in the office taking care of business, I have been traveling taking in several industry tradeshow and events.

One of these activities was a recent trip to Seattle, WA, where I attended the *AMT Society IA* renewal training event. Approximately 60 A&P/IA technicians were present coming from the usual array of aircraft maintenance segments including antique airplane restoration shops, helicopter operators, aircraft

few if any under the age of 40 — one more reminder of the current aging group of aircraft maintenance professionals.

The next day while visiting the Boeing Commercial Aviation Services maintenance training group, senior manager Steve Pennington presented the Current Market Outlook Boeing's long-term forecast of air traffic volumes and airplane demand. Perhaps some of you have already read the report released earlier this year. The report begins by saying, "As the world commercial fleet expands to more than 39,500 airplanes over the next 20 years, the world's airlines will need to add 460,000 pilots and 650,000 maintenance technicians, both to fly and maintain the new airplanes and to replace current personnel who are due to retire during the period." Before leaving for a tour of the wide-body factory in Everett I was given a demonstration in the Boeing 787 training lab. As was explained, the 787 is a high-tech airplane which requires new types of high-tech training.

Ironically, last week a story appeared in a Wisconsin newspaper indicating that Blackhawk Technical College located in southern Wisconsin is considering dropping its long-running aviation maintenance program in order to save money. I found this particularly disturbing because this was the A&P technician school I attended in the mid-1970s. In the state of Minnesota where I currently live we have gone from three down to one aviation maintenance school.

In the airline segment of aviation we have a global demand for aircraft and the personnel needed to maintain them. We have new high-tech airplanes and the high-tech maintenance training that goes with them. At the same time we have an aging group of aircraft maintenance technicians and the closing of aircraft maintenance training schools. Conflicting signs of the future.

Ron



*Boeing's Cameron Forrest provides Ronald Donner with a lesson in the Boeing 787 learning lab.*

maintenance schools, corporate aircraft operators, and a few from the military, airlines and Boeing. A show of hands revealed most of us in attendance were well over the age of 50;

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# SPOTLIGHT ON HAND TOOLS

## LED work light



The Maxxeon WorkStar 2000 Technician's Floodlight LED work light has more than 300 lumens of brilliant, even white light with no hot spots or dark spots. The moveable light head lets you direct the light where you want it, and it has a dual level light control, high and low. Other features include dual rare earth magnets attach to ferrous surfaces; rechargeable — no batteries to buy; 2.5 hours run time on high, eight hours run time on low; unbreakable LED 'bulb' never needs replacing; retractable hook allows you to hang it; cordless - no cords to get tangled up; and battery condition indicator light. For more information visit [www.maxxeon.com](http://www.maxxeon.com) or call (877) 621-0005.

## Portable tool protection



Pelican Products offers the 1460TOOL, a mobile tool chest. It features a two-level, extra deep, fully customizable tray system that lifts out of the case on reinforced stainless-steel brackets. The trays, with their interchangeable dividers, accommodate a wide variety of configurations to protect and organize standard hand tools and accessories that mechanics and service technicians use in the field. When the case is properly closed, its lid works with the tray system to form a seal that secures all parts inside so that

the case can be flipped upside down and the contents will stay organized. Additionally the lid opens up 180 degrees to form a wide stable base. The tool chest also features two stainless-steel padlock protectors. For more information call (800) 473-5422 or visit [www.pelican.com](http://www.pelican.com).

## Mobile tool chest



Snap-on Industrial's All Weather Mobile Tool Chest provides convenient, secure, versatile and weather-tight storage for tools that must be readily moved. It is designed to be pulled easily by hand, with a wide-wheel base and a telescoping trolley-style handle. It also comes with sliding drawers that can accommodate foam cutouts for tool control and accountability. The mobile tool chest comes in four colors and two configurations: 2 two-inch drawers plus 6 one-inch drawers, or 3 two-inch drawers plus 4 one-inch drawers. For more information visit [www.snapon.com/industrial](http://www.snapon.com/industrial) or call (877) 740-1900.

## Adjustable torque screwdriver



Bondhus offers a line of FELO brand adjustable torque limiting screwdrivers. The desired torque level can be set at the top of handle. When the preset torque level is reached, the mechanism slips and makes an audible click. Three models cover a torque range from 5.3 inch pounds to 47.8 inch pounds. The handle only limits torque when rotated clockwise. Full torque (no limiting) is achieved when the handle is rotated counterclockwise. A full range of Phillips, Straight, PZ, Torx and Torx Plus tip styles are available. For more information visit [www.bondhus.com](http://www.bondhus.com).

## Eddy current flaw detector



The VANTAGE is Ethers' first handheld and fully featured eddy current flaw detector, which allows true single hand operation, leaving the operator free to use the other hand to scan with a probe. The color display screen is 320 x 240 pixels providing excellent resolution aiding accurate and rapid defect interpretation. It is a true handheld flaw detector, weighing just 0.8 kg and is well-balanced, allowing comfortable operation over the duration of a shift. Housed in a robust ABS enclosure meeting IP65, it will withstand the harshest of site environments. Incorporating a battery pack, six hours battery life is attainable in standard operational modes and four hours in rotary mode. The instrument has both a four-pin Lemo connector and a 14-pin connector for rotary, bridge, and reflection probes. Frequency range is 50Hz to 12 MHz and test modes can be dual frequency (F1 and F2) or mix (in four configurations). Three alarm shapes are offered and can be used for F1, F2 or mix respectively. Data processing rate is up to 6KHz and allows storage of 200+ screen recordings of up to 40 seconds each. A USB cable and reporting software are included free of charge for documentation of results on laptops or desktop PCs. For more information visit [www.ethernde.com](http://www.ethernde.com).



## Open-end style wrenches

Wright Tool Co. offers WrightGrip, a high-strength, anti-slip design on the manufacturer's open-end style wrenches. The design is now available on Wright Tool open-end and combination wrenches in sizes from 7 to 24 mm. This feature ensures that the open-end wrench fits more snugly on the fastener, preventing the jaws from spreading and keeping the wrench from slipping. The WrightGrip design includes a slight enlargement of the wrench opening's back end. The additional metal in this high-stress area helps to stiffen the wrench jaws, thus decreasing the chance of their spreading under heavy loads. For more information call (800) 321-2902 or visit [www.wrighttool.com](http://www.wrighttool.com).

## Obstacle wrench insert sets

Blackhawk by Proto, a sub-brand of Stanley Proto industrial tools, announces a new concept in wrench design: Obstacle Insert Sets. Each set is built around the familiar reverse-ratcheting S-shaped wrench – but includes adaptors that let the technician turn several fastener sizes with just one wrench body. Each set includes one 8-inch long wrench body, six flank adaptors, and an equal number of box heads. Sets are available in fractional (3/8 to 7/8 inch) and metric (10 mm to 22 mm) versions. All Blackhawk by Proto tools meet or exceed ANSI standards and are backed with a limited lifetime warranty. For more information call (800) 800-TOOL or visit [www.stanleyproto.com](http://www.stanleyproto.com).

## Crimp tools

DMC's GMT Series crimp tools provide custom and standard tools manufactured to OEM or user requirements. Additions to this line include: The GMT295 terminates .64 mm (.025") Square Post terminal sizes 22 to 26 AWG (TE P/N: 87165-1; MOLEX P/N: 700580104). It conforms to TE Connectivity crimp spec 114-25006 and is comparable to the TE 91533-1 hand tool. The GMT1005 terminates uninsulated, tin-plated, copper terminals sizes 10 to 22 AWG. The GMT1006 terminates uninsulated, nickel-plated, copper terminals and uninsulated, nickel terminals sizes 10 to 22 AWG. The rugged construction of these tools assures repeatability and durability. Pneumatic and battery versions of hand tools are available. For more information visit [www.DMCTools.com](http://www.DMCTools.com) or call (407) 855-6161.



## Combination/reversible-ratcheting wrench sets

The Cougar Pro line of professional-grade hand tools has expanded. The additions include combination wrench and reversible-ratcheting combination wrench sets. The combination wrenches are available in two SAE sets and two metric sets. The 11-piece SAE set (#E911) and the 14-piece SAE set (#E914) consist of wrenches ranging in sizes from 3/8 to 1 1/4 inches. The 11-piece metric set (M950) and the 18-piece metric set (M958) consist of wrenches ranging in sizes from 7 to 24 millimeters. The 72-teeth ratcheting action turns fasteners with only a 5-degree arc swing. The wrenches feature a small head profile design and are made for high torque capacity from high-alloy steel. The tools are designed and engineered in the U.S. and manufactured using high-alloy steel. All come with the Cougar Pro lifetime warranty. For more information call (800) 321-2902 or visit [www.wrighttool.com](http://www.wrighttool.com).



## Thermal imaging cameras

Wahl Instruments Inc. announces its new generation of Wahl Heat Spy high-speed 30 hertz, 160x120 pixels, thermal imaging cameras. The Heat Spy is available in two series with 16 different configurations to suit a variety of applications. The z30 series "Detector" is designed for on the spot maintenance inspections and repair. The z50 series "Inspector" is designed for users required to document and prepare reports with ease, including thermal and digital images. The z30 models quickly detect problem areas, and are ideal to search, find, and fix applications. For more information call (800) 421-2853 or visit [www.palmerwahl.com](http://www.palmerwahl.com).



# PRODUCTS OF THE MONTH



## Welding systems

The Lincoln Electric Company, headquartered in Cleveland, OH, is the world leader in the design, development, and manufacture of arc welding products, robotic arc welding systems, fume extraction equipment, and plasma and oxy-fuel cutting equipment. The company holds leading global position in the brazing and soldering alloys market. It produces advanced welding power sources, plasma cutting systems, and environmental fume control systems used in aircraft maintenance on steel, aluminum, or stainless steel. *For more information visit [www.lincolnelectric.com](http://www.lincolnelectric.com).*



## Pitot-static tester

The PS-425 pitot-static tester from Preston Pressure uses manual pumps and a digital display, calibrated to 35,000 feet. Ideal for pitot-static tests and go-no-go checks. It is powered by 12 volts DC, either by internal batteries or a power adapter. Leak test timer. Annual calibration. *For more information call (580) 286-3161 or visit [www.prestonpressure.com](http://www.prestonpressure.com).*

## Dynamic balancer

RPX Technologies offers DynaVibe, a state of the art dynamic balancer kit for props. The kit includes DynaVibe, optical pickup (30-foot cable), accelerometer (30-foot cable), retroreflective Tape (12 inches), and case. A properly balanced engine installation offers a number of advantages over unbalanced equipment. The most significant advantage is in the longevity of components associated with the power plant. In many cases high vibration levels have lead to premature failure of critical engine components. Engine accessories, engine mounts, firewalls, and instruments are also susceptible to vibration damage and premature failure. *For more information call (405) 255-8936 or visit [www.rpxtech.com/rpxweb/Dynavibe.asp](http://www.rpxtech.com/rpxweb/Dynavibe.asp).*



## Portable job site lighting

Developed with job site safety at the forefront of everyone's minds, the Wobblelight 36-inch portable work light is completely self-righting, cool to the touch, and perfect for working in small spaces. The durable, high-impact thermoplastic housing and lens can take the abuse of the job site and is easy to use. The unit offers 360 degrees of light that is adjustable to 180 degrees with the optional reflector shield. The built-in convenience receptacle allows you connect up to three units together in a series. The built-in circuit breaker protects the unit against power surges. *For more information visit [www.probuillighting.com](http://www.probuillighting.com) or call (877) 707-0800.*



## Business aircraft research service

AERODEX business aircraft research service from JETNET provides comprehensive intelligence on 60,000+ business turboprops, jets, and helicopters worldwide including complete details on owners and operators, ownership history plus engine and airframe specifications. It is web-based. Database updates are offered on a monthly, weekly, or live basis. *For more information call (800) 553-8638 or visit [www.jetnet.com](http://www.jetnet.com).*

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# PRODUCTS OF THE MONTH

## Shop vacuum

Guardair Corp. offers the 1500 Series GunVacs. Powered by compressed air, the 1500 Series offers twice the power of standard shop vacuums in a compact, ergonomic, pistol-grip design. With a design driven by customer feedback, the 1500 Series delivers superior worker comfort, convenience, and ease of use. All models feature a rugged, cast aluminum body with contours engineered for superior ergonomics. A standard, 1 1/4-inch tapered vacuum inlet allows the use of a wide array of vacuum accessories. The wide, comfortable trigger includes a convenient trigger latch for extended term use. Dual 1/4-inch FNPT air inlet ports allow for ease of installation and operation. For convenient storage, a built-in hanging eyelet is featured. Offered in three versions, 1500, 1510, and 1548, each features a unique configuration and combination of accessories. *For more information visit [www.guardaircorp.com](http://www.guardaircorp.com) or call (800) 482-7324.*



## Maintenance platform

Spika's Alpha Series Platform is lightweight and highly maneuverable, but engineered to withstand the most rigorous use. Provides safe and efficiency-enhancing upper-level access. Features include 36-inch height adjustability, narrow footprint, and variable pitch stairs maintain a consistent stair step interval without the bottom step rising from the floor with the system. Stair module can be attached to the deck in 10 different positions, or used independently. Optional sliders allow perfect contour conformity. *For more information visit [www.spikawelding.com](http://www.spikawelding.com).*



## Digital pitot-static tester

The PS-525 digital pitot-static tester is designed and priced for non-RVSM aircraft. Two versions are available, for 35,000 and 50,000 feet. Airspeed is displayed up to 500 knots. Features include electric pumps, altitude encoder reader, and annual calibration. It is portable, with internal re-chargeable batteries. *For more information visit [www.prestonpressure.com](http://www.prestonpressure.com).*



## Epoxy/urethane flooring systems

PolyMax specializes in industrial and commercial epoxy and urethane seamless flooring systems for hangars. Designed to withstand heavy traffic, PolyMax has excellent impact, abrasion, and chemical resistance to aviation fluids including Skydrol. Surface finish can be smooth or with slip resistant texture. Features include exceptional bonding strength to concrete, color stability, and resists damage from fuel and chemicals. *For more information visit [www.polymax-us.com](http://www.polymax-us.com) or call (405) 755-8454.*

## Uncured sealant remover

PolyWipes by RPM Technology are a revolutionary product for anyone using sealants, adhesives, or greases. They contain no solvents or abrasives. Why clean your hands with a solvent that has a NFPA health rating of 1 and is flammable? PolyWipes have a health rating of 0 and are not flammable! They safely remove uncured or partly cured adhesives and sealants by breaking the surface tension between the material and the substrate. The material then transfers to the wipe for easy, non-HAZMAT disposal. PolyWipes are available in convenient re-sealable tubs each containing 150 wipes. *For more information visit [www.rpm-technology.com](http://www.rpm-technology.com) or call (866) 271-8766.*



## Planishing hammer kit

The Eckold Deluxe Air Planishing Hammer kit comes with a variety of inserts for curving, stretching, and planishing. Inserts are synthetic and steel type.

*For more information call (734) 947-8100 or visit [www.klas-sictoolcrib.com](http://www.klas-sictoolcrib.com).*

## Paint protection kits

AeroTect offers pre-cut paint protection film kits, Radome boots, Nav-screen protectors, and leading edge tape. Protect your aircraft from erosion and paint damage. Protect Nav-screens from scratches and fingerprints. *For more information visit [www.aerotect.net](http://www.aerotect.net) or call (866) 388-AERO.*

## Step stools

Shure-Step provides several models of safety step stools for aircraft maintenance and passenger use. They are lightweight (9 or 10 pounds), heavy-duty (rated for 500 pounds) step stools that can take abuse on the



tarmac or in the hangar without breaking. They keep mechanics safe while working on aircraft or ground equipment. These step stools won't tip or slip when standing on them because of their pyramid design. Two of the Shure-Step models grow 6 inches when stacked so if you have a short mechanic or need to reach a little higher to perform a task, just throw another step on top of the one you're using. *For more information visit [www.Shure-Step.com](http://www.Shure-Step.com).*

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# PRODUCTS OF THE MONTH

## Scale calibrations

Jackson Aircraft Weighing Service conducts NIST traceable calibrations and repairs on all types of aircraft scale kits. Calibrations, digital upgrades to analog kits, replacement indicators for Revere kits, replacement load cells as well as used equipment are available. Calibration cost is priced right, quick turn times, and rental scales available if needed. For all your scale needs and repairs. *For more information visit [www.aircraftscales.com](http://www.aircraftscales.com).*



## Portable hot bonder

HEATCON Composite Systems offers the HCS8800, a portable hot bonder, with improved features. The lightweight portable HCS8800 retains the functionality of larger more traditional hot bonder units. The size and weight of the unit increases portability which can improve both technician response time and access to difficult repair environments. An enhanced operator interface includes a display with improved graphic representation and facilitates operator interpretation of cure process results. Another convenience of the HCS8800 is USB data export capability, allowing readout data to be transferred from the bonder and stored in other locations for historical record keeping. The internal library of the HCS8800 allows storage of up to eight multiple programs. Storage does not require the use of a personal computer. *For more information call (206) 575.1333 or visit [www.heatcon.com](http://www.heatcon.com).*



## Tool storage

Shure Manufacturing Corp. prides itself on its premier manufacturing capabilities, high quality products, professional customer service, and the development of new and innovative products to meet the needs and demands of today's shop environment. Shure provides workbenches, tool/parts storage, storage cabinets, tear down benches, technician carts, and various shop equipment for the maintenance and repair industry. Choose from one of Shure's 22 standard powder coat paint colors. Design your own workstation. *For more information call (800) 227-4873 or visit [www.shureusa.com](http://www.shureusa.com).*

## Lighting

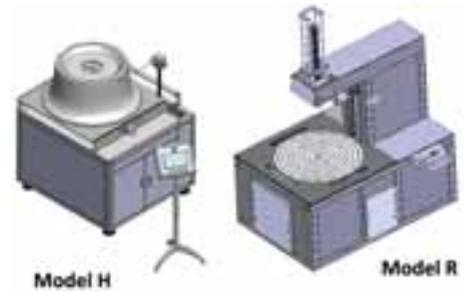
ProBUILT Professional Lighting manufactures durable, innovative lighting products for a wide range of job site and task lighting applications. Every product has been specifically designed with the specifications, features, and reliability demanded by the professional tradesman and the industrial environment.

Its product lines include the patented, self-righting Wobblelight, Hang-A-Light temporary area work lights, Defender industrial lighting products, the new ProBUILT high intensity Torch, and the new SmithLight, battery-operated LED work lights. ProBUILT's products are designed to be safe, bright, and easy to use. All products are CSA, UL, or ETL listed. Many are energy efficient. *For more information call (877) 707-0800 or visit [www.probuiltilighting.com](http://www.probuiltilighting.com).*



## Wheel inspection system

Ether NDE, a UK-based manufacturer of eddy current products, offers the VEESCAN ET wheel inspection system. It is available in two different models, VEESCAN H for maximum flexibility and VEESCAN R for optimized productivity. It is ideal in all aircraft wheel-testing environments and can be configured with a wide choice of probes and allows any wheel testing facility the flexibility to select the system most compatible with its workload. It maximizes the probability of detection. Available in two configurations, Model H is designed to lift the wheel and fix it with an automatic adaptor that uses the wheel inertia to center it. *For more information visit [www.ethernde.com](http://www.ethernde.com).*



## Torque measurement system

Honeywell's TMS 9250 torque measurement system provides true torque measurements with a noncontact, digital telemetry design. It offers new options for mounting, installing, sensing, controlling, actuating, collecting data, and reporting data. The system is fast, accurate, flexible, simple to install, and requires less maintenance. Completely digital, its wireless design enables higher integrity of the torque data capture through higher resolution, higher sensitivity, faster response, and no mechanical interferences. The result is a more accurate indication of the actual torque being experienced, plus an increase in reliability. End users and manufacturers of dynamometers and test stands can now digitally measure torque with improved results and the desired customization features to meet their ever-changing needs. *For more information visit [measurementsensors.honeywell.com](http://measurementsensors.honeywell.com).*



## Torch light

ProBuilt  
Professional  
Lighting LLC

announces the ProBuilt 35w HID Xenon Torch. The rugged military-grade high-strength forged aluminum alloy casing provides maximum protection, prevents corrosion and rust, and is lightweight. The 35-watt HID Xenon bulb will produce up to 2,600 lumens and can be seen for up to 3,000 feet. The low setting conserves the battery life but still produces 2,400 lumens. The lithium ion battery can hold a charge for 140 minutes on low and 100 minutes on high and recharges in one to two hours. The torch is 18 inches long and weighs only 3.4 pounds. *For more information visit [www.probuillighting.com](http://www.probuillighting.com).*

## Forklift safety

According to the Bureau of Labor Statistics, each year nearly 100 workers are killed in forklift accidents and another 20,000 workers are seriously injured. Telescopic forklifts have the advantage of a greater reach extension and lifting capacity than a standard forklift, but this also creates its biggest limitation. Summit's video/DVD training program, Telescopic Forklifts: Stabilize Your Safety, will ensure that your workers understand that additional risks have to be taken into account if you're working around or operating this equipment so that depilating injuries and cost are avoided at any worksite. This program covers: what to do before starting up, maintaining stability, and best work practices. *For more information call (800) 842-0466 or visit [www.safetyontheweb.com](http://www.safetyontheweb.com).*



## Aircraft Wireless Weighing Kit

TOR REY Electronics offers its Aircraft Wireless Weighing Kit for small to medium sized aircraft. Features 10K capacity, three wireless load cells, aluminum case housing, three wireless indicators, built-in rechargeable batteries, and AC adapter. It's ideal for small, regional, and private airports. The kit is portable, easy to setup (using existing jacks), and very affordable. Currently available through [www.aircraft-spruce.com](http://www.aircraft-spruce.com). *For more information call (888) 748-3934.*

# PRODUCTS OF THE MONTH

## Key web sites/marketplaces for aviation market

This report covers the key web sites which facilitate the trading, procurement, and listing of aircraft parts. It provides a synopsis of their key capabilities and policies, and the results from a survey of the aviation industry on their usability and how customers view these sites. This in-depth survey covered many aspects of 20 of the aviation industry's most-used web sites/marketplaces. It also delves into emerging industry trends to be aware of RFID, electronic forms (eForms), and Software-as-a-Service (SaaS). Also presented is a set of general recommendations on protecting yourself and securing your data as you do business on the Internet. *For more information visit [www.opmresearch.com](http://www.opmresearch.com).*

## Aircraft scales

Large jet under axle weighing systems are available from Aircraftscales.com, a division of Jackson Aircraft Weighing Service. It supplies under axle scales for 737, A320, and larger aircraft. Easy transport, easy to use, low cost, and time saving. Features include decreased back injury from lifting heavy platforms, easy set up with single man deployment under axle, no need for expensive wing jacks, no large ramps or tugs required, and sets shipped UPS or FedEx. *For more information visit [www.aircraftscales.com](http://www.aircraftscales.com).*



## Cleaner/Waste management system

The EPA approved Mini-Max waste management systems from PDQ Precision are designed for parts aqueous/waterless cleaning and waste containment. Uses clean water, making super heated high pressure steam vapor for cleaning. Add arma-sol to water to inhibit corrosion. Multiple sizes of equipment are available, electrically operated and safe for all products, environment, operator, etc. Benefits include no chemicals, eliminates waste water stream, portable, deployable, and six-minute startup. Liquid usage is extremely low, greenest cleaning system as well as the most cost-effective cleaning system available today. Safe for every item from electronics to plastics to metals. *For more information visit [www.minimaxcleaner.com](http://www.minimaxcleaner.com) or call (619) 474-3600.*



## Cockpit posters

Global Jet Services offers wall size, high quality cockpit posters for a wide variety of aircraft. Its high quality cockpit posters, printed on strong coated matte paper, using excellent graphics and great detail, provide familiarity with each cockpit along with easy references. These posters are excellent learning and training aids. *For more information call (860) 651-6090 or visit [www.globaljetservices.com](http://www.globaljetservices.com).*

## Personal protective equipment

Protective Industrial Products has been a supplier of work gloves and personal protection equipment for more than 27 years and constantly strives to build its product line with the value proposition of quality, integrity, and safety. Its products have been designed and rigorously tested with the utmost safety in mind and the products perform well "at work" and beyond. *For more information call (800) 262-5755 or visit [www.pipusa.com](http://www.pipusa.com).*





## Holiday buying

Aircraft Spruce has an excellent selection of portable GPS, pilot supplies, headsets, avionics, instruments, wheels, tires, oil, filters, books, DVDs, and aviation software. With more than 60,000 different products, it's easy to find just about anything relating to aviation. A gift section is available where products are sorted by price in addition to product type to help with your holiday purchases. View in dollar increments ranging from gifts under \$50, \$100, \$200, \$500, or over \$500. View based on product type to look at a wide array of options including desk pen sets, headsets, clocks, mugs, apparel, games, key chains, calendars, and more. Aircraft Spruce gift cards are also available in any denomination and can include a custom note for your recipient. *For more information visit [www.aircraftspruce.com](http://www.aircraftspruce.com) or call (877) 477-7823.*



## Absorbent mat

New Pig Corp.'s PIG Grippy mat features a one-of-a-kind adhesive bottom that stays put, no matter what. It soaks up leaks and drips without bunching up, curling or sliding, and peels up easily. It is tough enough for high-traffic work areas, walkways, and anywhere slippery floors are a problem. It's been tested and certified by the National Floor Safety Institute (NFSI) as a high-traction surface which can reduce slip and fall claims by as much as 90 percent when used as part of a floor safety program. Durable and absorbent, the mat absorbs oils, coolants, solvents, and water. A poly backing creates an additional barrier to prevent absorbed liquids from passing through to the floor. It cuts easily with scissors or utility knife to fit even smaller size applications like workbench and toolbox liners. Available in rolls, pads, rugs or a dispenser box. *For more information call (814) 684-0101 or visit [www.newpig.com](http://www.newpig.com).*

## Technical instruction

Abaris Training is the recognized global leader in hands-on technical instruction in advanced composite design, repair, manufacturing, and inspection. The effectiveness of its training style is so highly esteemed that it has become the go-to trainer for all of the aerospace primes, all of the service branches, the NTSB, and the FAA. Between training in its four global training centers and onsite training with content tailored to the customer's needs, Abaris has trained more than 17,000 students from more than 60 countries. Abaris Training currently offers 26 courses, teaching accepted best practices for engineers, supervisors, technicians, and FAA inspectors in Reno, NV; Griffin, GA; Bicester, England; and Brasilia, Brazil. Abaris Training has set the standard for advanced composite hands-on instruction since 1983. *For more information, visit <http://www.abaris.com> or call 775-827-6568.*



## Concrete coatings

Florock offers concrete coatings, hangar floor coatings, protective coatings, floor epoxy, and urethane. The coatings are chemical resistant, high gloss, easy to clean, reflective, and economical. *For more information visit [www.florock.net](http://www.florock.net) or call (800) 356-7625.*

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# PRODUCTS OF THE MONTH

## Single-panel hydraulic door

The Hi-Fold Door Corp. proudly offers its state-of-the-



art single-panel hydraulic door. The patented sensing package is the key to market differentiation for the Hi-Fold single panel door. The highly engineered system merges its door control module within its hydraulic components to synchronize the cylinders constantly within ¼ inch of stroke. The door is pre-assembled, tested, and ready for installation. It features rugged high quality components, maintenance-free operation in all climates, remote operation, and three-year comprehensive warranty. *For more information visit [www.hi-fold.com](http://www.hi-fold.com) or call (800) 443-6536.*



## Fabric structures

Providing design-build solutions to the aviation industry, ClearSpan makes designing the best structure for any application simple. Truss Arch specialists guide customers through the process and communicate with in-house design, engineering, and manufacturing teams. The structures feature spacious interiors without support posts, allowing equipment and aircraft to maneuver easily. There are minimal foundation requirements and the structures are easy to relocate. Custom engineered to any location. Abundant natural light reduces energy costs. *For more information visit [www.ClearSpan.com](http://www.ClearSpan.com) or call (860) 528-1119.*

## Aviation window restoration system

The 3M Aviation Window Restoration System by Clearfix Aerospace is one of the most significant advancements in aircraft window



repair technology, solving safety issues around window clarity while considerably reducing aircraft downtime and window replacement costs. The 3M Clearfix System was developed to solve an unmet need for improved clarity on military rotorcraft. Many helicopters use acrylic windows for weight reduction, but those windows can sustain a significant amount of damage from sand, dirt and debris. NAVAIR estimates use of the 3M Clearfix System, could save the U.S. military as much as 80 percent of the replacement cost of windows on all platforms of rotorcraft. At the same time, it also reduces downtime for this repair by as much as 85 percent. *For more information visit [www.3M.com/Clearfix](http://www.3M.com/Clearfix).*



## Aluminum work platforms

Easy Access Industrial Distributors offers aluminum work platforms. Features include spring lift assisted, 10 height adjustments, end or side mounted extension ladder, nonslip deck patterns, and three-way and full handrail options. Connectable

for inline or wrap around access. Wheel, outrigger, and deck padding accessories available. *For more information visit [www.joescaffold.com](http://www.joescaffold.com) or call (877) 730-2704.*

## Wearable LED light

QuiqLite offers the Night Flight LED. It features a battery-saving 10-minute automatic off, the light clip adjusts to surfaces up to 1-inch thick, 180-degree adjustable light arm, and safety strobe. The first push activates single LED, second push activates both LEDs, and third push turns off all LEDs.



It provides several hours of continuous use. *For more information visit [www.quiqlite.com](http://www.quiqlite.com).*

## Bolting product brochure

Advanced Torque Products (ATP) has released a full-color, capabilities brochure describing its extensive line of innovative bolting products. These products are especially suited to aircraft and aerospace maintenance, repair and overhaul, marine, land and wind turbine, industrial, automotive and commercial applications. ATP's digitally controlled, mechanical torque multipliers offer torque ranges from 600 to 40,000 foot-pounds, with accuracy to within 1 percent, even over extreme temperature fluctuations. *For more information call (860) 828-1523 or visit [www.AdvancedTorque.com](http://www.AdvancedTorque.com).*



## Side mount hose reels

Reelcraft's Series 4000, 5000, and 5005 reels yield great strength from a compact, space-saving design. The addition of a rigid side mount allows reels to be mounted on either the right or left hand side. The heavy gauge side mount plate has slotted mounting holes for easy installation. Reels can be ordered in right (top wind) or left (bottom wind) configuration or easily converted afterward. *For additional information call (800) 444-3134 or visit [www.reelcraft.com](http://www.reelcraft.com).*



## ZeroG solution

Equipois zeroG and X-Ar exoskeletal arm technology allow workers to maneuver heavy tools, parts, and payloads, as if weightless with unmatched freedom of motion. Equipois' award-winning technology is implemented as best practice by some of the world's top manufacturing companies. By eliminating fatigue, zeroG boosts productivity, increases safety, and improves quality. Equipois offers zeroG solutions for nearly every stage in aircraft manufacturing and maintenance where tools are used, including: fuselage sanding and buffing, riveting, drilling, fastening, component grinding. *For more information visit [www.equipoisinc.com](http://www.equipoisinc.com).*

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# PRODUCTS OF THE MONTH

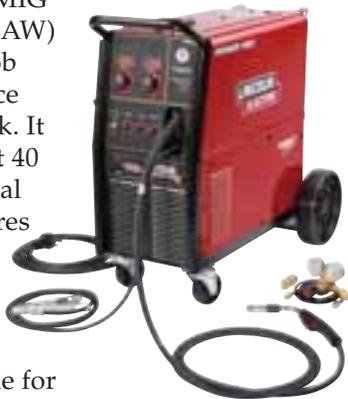
## Mobile carts



Lista International Corp. announces the availability of its Technician Series mobile carts, a heavy-duty, lightweight tool storage and transport option for service technicians. Flexible and maneuverable, these carts offer versatile mobility with secure storage, allowing for simple transport of tools and parts. The mobile shelf cart has 2-inch deep pan shelves at the top and bottom, which are covered with a ribbed rubber mat. The drawer units include a core lock and two keys, as well as a premium mesh drawer liner. The carts, which provide a 400-pound capacity, have two fixed and two swivel-with-wheel-lock casters. The mobile carts are available in two styles. *For more information call (800) 722-3020 or visit [www.listabox.com](http://www.listabox.com).*

## Power welder

Lincoln Electric adds the POWER MIG 256 to its line of POWER MIG Professional's Choice welders, replacing the previous POWER MIG 255XT model. The updated model sets the standard for MIG (GMAW) and flux-cored (FCAW) welding in light industrial job shop fabrication, maintenance applications, and repair work. It is rated 250 amps/26 volts at 40 percent duty cycle. Its internal MAXTRAC wire drive features a wire feed speed range of 50-700 ipm (1.3-17.7 m/min). The 208/230V input voltage model includes a 115-volt auxiliary receptacle for powering grinders, lights, and other tools in the work area. This model is designed around Lincoln Electric's patented Diamond Core Technology, which delivers a forgiving arc with excellent out-of-position arc stability, low spatter, and a wide voltage range at a given wire-feed-speed. During setup, digital meters display preset voltage and wire feed speed. *For more information call (888) 355-3213 or visit [www.lincolnelectric.com](http://www.lincolnelectric.com).*



## Tool tethers

To prevent injury, damage, or loss as well as complying with OSHA regulations, all tools used aloft must be secured against accidental displacement. But when working aloft requires an assortment of tools, hanging multiple tethers from an employee or structure can create a potentially dangerous working environment. Gear Keeper's patented, Quick Connect tool tether permits the user to safely change out a tool in seconds saving valuable time on the job. When a tool is unplugged from the tether, the user simply selects the next tool to use, plugs it in, and returns to work. The quick-release component comes in an assortment of configurations including split ring, mini-lanyard straps, side release, bungee strap, snap clip, and more. Tethers are available in both retractable and lanyard styles. *For more information visit [www.gearkeeper.com](http://www.gearkeeper.com).*



## Parts washer

Bio-Circle is a parts cleaning system that uses bioremediation, a natural process where microscopic organisms "digest" oils and greases and convert them into water and carbon dioxide. It eliminates the need for ventilation hoods, breathing masks, and waste disposal or recycling. The parts washer also includes a full-service maintenance program for customers, called Bio-Circle CARE Service. The system typically includes a wash basin, bioremediation cleaning solution, internal filters to catch debris, and accessories such as nozzles and brushes. Dirty parts are placed in the sink and then soaked with the solution. The parts are scrubbed and rinsed clean, the oil and grease detach themselves from the part's surface, fall in the tank and are then completely consumed by the microorganisms inside the liquid. *For more information visit [www.biocircle.com](http://www.biocircle.com).*



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