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STEVE SMITH

Thoughts On *inter airport* Europe

The GSE world seems a manageable globe after I came back from my first visit to this major trade expo.

What to take in first after my first tour? Certainly, the sheer size of the exhibit space. Not just two big halls inside, but an outside pavilion just as immense. Having an outdoor exhibit in October in Germany seemed like an iffy proposition to me. Given the nature of GSE, however, the great outdoors is a fitting choice – maybe the only choice for this much variety of equipment. From squat pushbacks to towering deicers to working, full-scale belt loaders, the outdoor pavilion was a great place to learn.



Outside or inside, more than 12,000 visitors from 34 countries visited 606 exhibitors at *inter airport Europe*. Macks Brooks Exhibitions

I was told the industry was a bit short on new products. However, I was barely 30 minutes into the show's first day when I attended a JBT AeroTech press conference introducing four pieces of equipment, including a redesigned B600 making its industry debut. This one certainly had some flair to it with curved wheel wells and a cab that almost looked like any other pickup truck you might see at the local car dealer. Not bad for something that tops out at 15 miles an hour. Throughout

that first day I saw new products from Semmco; Douglas; Harlan and Meggitt.

I've been to plenty of trade shows in my career equally as enormous as *inter airport Europe*, but it never ceases to amaze me how much pride product managers take in describing their products. I introduced myself, for example, to one such manager at Unitron and spent the next hour hearing about plans to grow the European market and why the company's product was a natural to accomplish this.

I know I left with a stack of business cards about three inches thick and introduced myself to plenty of helpful people that will point me in the right direction for story ideas. Along the way, I learned some bad Irish jokes, received a picture of me holding up a three-foot long hot dog that I'd rather not discuss, and, finally, took back a lifelong memory of singing along to John Denver's "Country Roads" – an inexplicably popular German bar song.

In other news, by now I trust my *Ground Support Worldwide* readers are "aviation pros" when it comes to navigating our new aviation portal, www.AviationPros.com. We launched the new site earlier this month. The site leverages our expertise in the aviation industry by combining the online presence of all properties under the Cygnus Aviation umbrella – including *airport business*, *Aircraft Maintenance Technology*, and, of course, *Ground Support Worldwide* magazines. Explore the site and tell us what you think.



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succeed no matter what services they seek — from turnkey solutions to equipment-only alternatives.

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Our individual customer solutions provide specific support. Some fleets may want to buy equipment only, or do

their own operations and maintenance or monitoring. No matter. We are here to help you convert to and succeed with natural gas fuel quickly, easily and affordably.

What has not changed is the reason to team with Clean Energy for natural gas fueling — because it's the best decision owners and operators can make to ensure that their vehicle fleets are fueled and roll out every day — on time. In a word — reliability.

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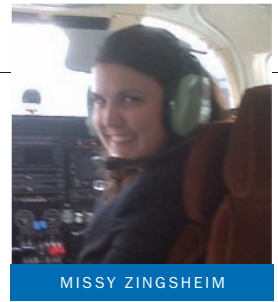


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MISSY ZINGSHEIM

Nominate Your Leaders

We'll be honoring the people, products, services and manufacturers that lead the way in the ground support industry during next year's Cygnus Aviation Expo.

It's time to send us your nominations for our *Ground Support Worldwide Leaders of the Year Awards*. We've narrowed the awards down to three:

Lifetime Achievement Award: This award will go to a person who has demonstrated commitment to the industry through numerous years of dedicated service.

Team Leader Award: This award will go to an individual who has taken a leadership role with personnel.

Product/Service Award: New this year, this award celebrates the products, services and manufacturers making a difference in the industry.

The awards will be presented to the winners during a Network Reception, which will also feature our popular truck giveaway, Thursday night, March 8, during next year's Cygnus Aviation Expo in Las Vegas.

Send your nominations to: Missy Zingsheim at missy@AviationPros.com

Please tell us which award you are choosing and include the name of the person, product, service and/or manufacturer you are nominating, as well as your award-winning reasons.

Leaders OF THE Year

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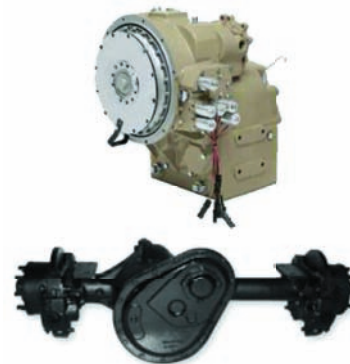
Since 1921, Douglas Battery has been providing reliable power to keep your equipment moving. The new Titanium High Frequency Conventional & Opportunity Profile Charger, which is more energy efficient, has the highest power factor, increases the life of the battery, and reduces maintenance costs, is now available in an 80-volt model.



CASTERS

Ground Support Products Corp.

Ground Support Products offers a variety of casters: OEM, forged steel, sealed base-bearing, winged and stair casters. Sealed, double-ball race wheel bearings prevent dirt and debris from obstructing movement of the caster wheel. GSP's 3.5-mm fork is 1/2 mm thicker than most others. Designed specifically for the roughness of the airline industry.



TRANSMISSION AND AXLE REPAIR

Palmer Johnson Power Systems

Palmer Johnson Power Systems operates 10 fully equipped service centers from the Great Lakes to California with 50 experienced, factory-trained technicians and 24/7 on-call service. Palmer Johnson is an authorized service center for Twin Disc, ZF, Funk, Carraro, AxleTech, and other manufacturers of off-highway transmissions, axles and power-train components.



AXLES AND COMPONENTS

Metro Crown International

Metro Crown International is a premier supplier of front steer axles and components to fit most major brands of baggage tractors. MCI manufactures and stocks the components parts and can turn many orders around the same day at a significant cost savings to our customers.



CONVEYOR BAGGAGE CHUTE

R.J. Design LLC

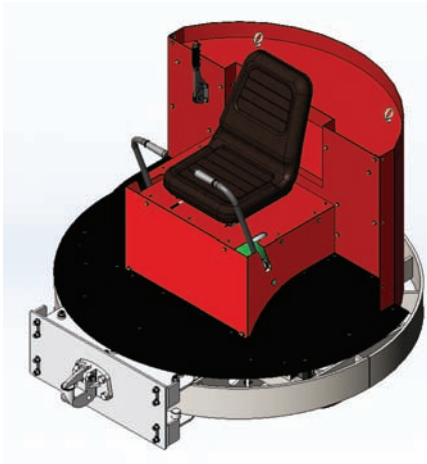
Conveyor Baggage Chute was designed to eliminate shoulder and back injuries for ground personnel. Services aircraft up to a 757 along with all regional aircraft. Adjust to heights and conveyor reverses to load and unload baggage and wheelchairs.



BAGGAGE CART

Par-Kan Company

Par-Kan Company offers open and closed baggage carts as well as a wide variety of GSE equipment, including potable water carts, lavatory carts, fuel service carts, oxygen/nitrogen carts, electric trucks for water and lavatory service.



ELECTRIC-POWERED ODV
The Hammonds Companies

Hammonds has announced its newest electric-powered ODV, the G-18E. Rated to tow 18,000 pounds, the tractor is available in electric, engine or with hybrid power. The hybrid model is available with LP, gasoline or diesel engine supplement to the electric drive. The new G-18E has a diameter of only 60 inches making it ideal for crowded manufacturing facilities, crowded hangers and general aviation applications. The ODV's unique omni-directional capability can provide maximum drawbar pull on a variety of surfaces and is available with your choice in either conventional or cutting edge lithium battery power. The G-18E follows Hammonds' introduction of the G-90E to Boeing Aircraft utilizing lithium battery power with the latest in digital controls and power management.



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Carson Manufacturing

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Triton Technologies LLC is a manufacturers representative for AeroVironment (PosiCharge battery charging systems), Douglas Battery, Hammonds (Omni-Directional Vehicles and the Fuel Jack) and composite aircraft ULDs.



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ORION DEICER Global Ground Support

Global has extended its product range and is introducing a new self-propelled, aircraft deicer model for the regional and executive aircraft market. The new product, called the ORION, is based on the Terex Genie mobile Telehandler powered by a 99-hp Cummins turbo diesel and can be driven and operated from the basket with the operational one-man drive system. It has a working height of 47 feet with a 27-foot forward reach and four-wheel drive and steer for maximum maneuverability. The standard model will be provided with two tanks, the deicing tank for Type I fluid of 700 gallons (2,650 liters) capacity, and an anti-icing Type II or IV tank with a capacity of 180 gallons (681 liters). Different tanks sizes are available for both deicing and anti-icing fluids.



EXPRESS HEAT DEICER Premier Engineering and Manufacturing

Premier Engineering and Manufacturing's Model MT43P21 "Express Heat" Deicer contains 2,100 gallons of fluid storage capacity with 180-degree F fluid within 90 seconds utilizing the "Express Heat" 4.2 million BTU heating system. A double knuckle, telescoping and articulating aerial lift is mounted forward for greater versatility and visibility of the operator. Options include: enclosed basket, single-person drive system, proportioning system, extended reach lift and Guardian Angle Monitoring System for remote access to deicer from hub.



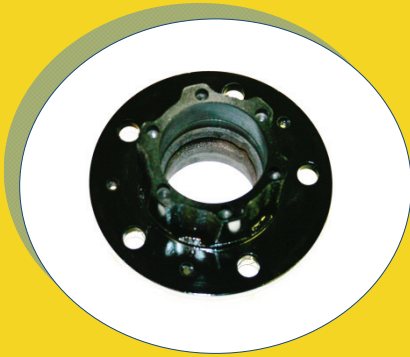
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Global Ground Support

Global Ground Support's Glycol Recovery Vehicle is mounted on an Isuzu NPR HD equipped with automatic transmission, a 5.1-liter engine and 113-liter fuel tank. However, the unit can be mounted on any appropriately sized chassis. The vacuum and hydraulic systems are powered by an auxiliary engine, a Deutz Oil-cooled three-cylinder diesel. This drives a 850-cfm positive displacement blower and provides hydraulic power for the electric over hydraulic controls.



DEICING FLUIDS

The Dow Chemical Company

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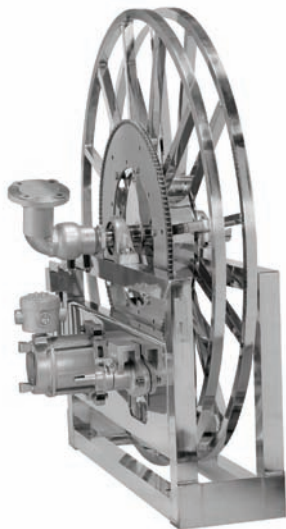
As the leading provider of natural gas fuel and related services in North America — now serving 27 airports — Clean Energy designs, builds, operates and main-

tains fueling stations; provides natural gas fuel on long-term contract; helps secure financing and vehicle grants. Our comprehensive, turnkey solution supports low-cost, state-of-the-art, sustainable fleet operations.



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FUEL AND FLUID WARMING SYSTEM Arctic Fox LLC

Hydraulic- and fuel-heating components and systems for trucks and equipment that are powered by vehicle's electrical power or cooling system.



GROUND SERVICE PUMPS The Gorman-Rupp Company

Gorman-Rupp offers a complete line of ground service pumps and related equipment, consisting of several standard centrifugal and self-priming pump models, directional valves, educators and a host of other piping accessories.



STAINLESS STEEL INNER LININGS Garsite/Progress LLC

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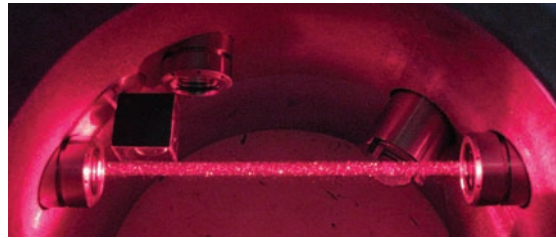
Titan Aviation is a manufacturer of refuelers, hydrant dispensers, hydrant carts, fuel farms, hydrant pit cleaners. Titan Aviation also does commissioning as well as preventive maintenance.



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RAMPCHARGER
Bosserman Aviation Equipment Inc.

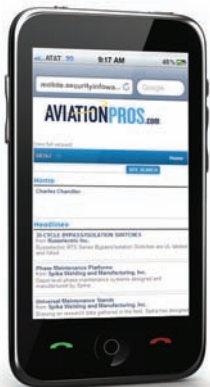
Bosserman Aviation Equipment, Inc. introduces the Rampcharger, an electrically driven Isuzu refueler, ramp and hydrant servicer. The RampCharger is environmentally green (no gasoline or diesel engine), yet offers the amenities of a standard, factory-warranted chassis.

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ALTERNATE POWER BUS
Unitron

Unitron, LP introduces the N+1/ Hot-swap Alternate Power Bus for airborne applications. Utilizing the TSO Authorized GS-94-444-22 series frequency converters in combination with a Paralleling Control Box, Unitron LP debuts a system that can be programmed to provide alternate 50/60/400Hz power running from variable 400Hz aircraft power.



JETGO GPUS
AERO Specialties

JetGo GPUs have been specifically designed to meet the increasing demand in the aviation industry for a quieter yet powerful “green” ground power unit. Its design promises to set a new standard for 28-volt DC ground power units.



MODEL 3300 GPU SERIES
**Start Pac/Rotorcraft
Enterprises LLC**

Start Pac 3300 GPU series range from 24- to 28-volt starting units. These are custom designed to meet individual requirements so that the customer only pays for what they need. Some of the 3300 series are for starting only and others are for starting and powering up aircraft systems with either a 105- or 175-amp power supply.



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**J&B Aviation Services - An ITW
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J&B Aviation Services’ modular 400Hz ground power cable, JB9516, provides the optimum in design and customer options. The streamlined connector provides greater versatility for today’s use as well as tomorrow’s requirements. High-visibility replacement contact section allows for in-field replacement in just 3-5 minutes. Molded tapered strain relief at connector back strengthens connector by absorbing the “whip-saw” action commonly used when inserting and removing connector from the aircraft. Lightweight and cost-effective.



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ABC Industries Inc.

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Malabar's B787 Coolant Service Cart (CSC) is approved by Boeing for Environmental Control Systems service. Equipped with an integral programmable logic controller, the CSC performs rapid aircraft coolant drain, fill, clean and de-aerate operations.



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ITW Military GSE

ITW Military GSE's JO3C (Joint Operations Configurable Combination Cart) provides power and air to multiple aircraft platforms. It follows a modular design concept that allows flexibility to select required cooling and power outputs for multiple aircraft platforms. Power modules can be removed and used as stand-alone units. Options include 400 Hz converter, 270 VDC converter, 28 VDC converter, servo air, diesel or electric powered (or both) and a lighting package. The power quality exceeds MIL-STD-704E and F-35 standards. The unit is transportable on a single C-130 pallet position.

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GROUND POWER UNITS
Current Power LLC

Current Power LLC is a leading manufacturer of 28-volt DC power supplies for corporate, military, and commercial customers. The company is known most for its 600- and 400-amp mobile units, these units provide 2,000 and 1,200-amp peak starting current and its exclusive re-connectable input which makes a single model useable around the world, on any 50 or 60 Hz power. The photo shows the company's best selling unit, the MSR-600.

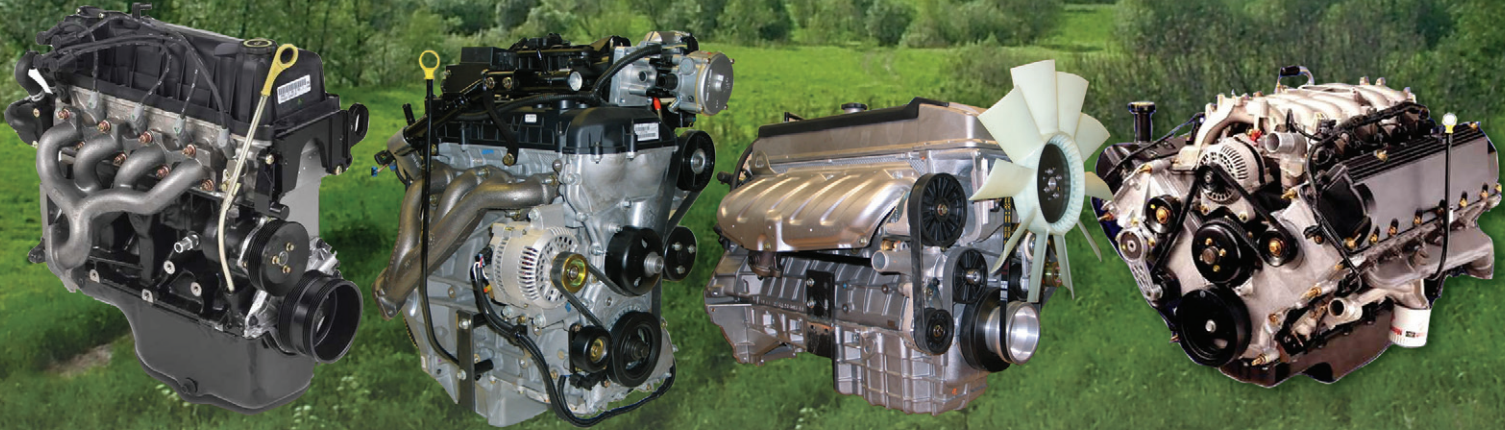
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QUICK CONNECT - AIR CONNECTOR MCM Engineering Inc.

The MCM Engineering Quick Connect Air Connector does not require tools for connection to be made and installation is less than 1 minute. The QC-AC has a patented technology that eliminates the need for hose clamps. Made with a clear polyurethane material the QC-AC fitting is cleaner, safer and lasts much longer than standard fabric and hose clamp. The 8-inch side of the QC-AC reducer has the BFM Fitting patented connection and the 14-inch side can be ordered with the Universal Zipper/Velcro or Velcro only to match the PCA duct being used by the end-user.

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1.



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1. **Model 715J1000EX**
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US PATENT NO. 6289949
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 - Fits ATA Standard Flange
 - Rotary Cam Action Latch Handles
 - Fewer Moving Parts
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 - Light Weight, Less Than 5 Pounds
 - Protects Duct from Getting Damaged
 - Powder Coated
 - 1-year Warranty on Latch Handle Casting



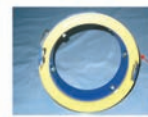
The word "LOCK" is cast into the handles. Provides added safety as ramp service staff can check the locked position.

These adapters are the easiest in the market to rehub. Some major airlines rehub on the line with these parts.

Hall Part #8980-2-100K: Handle Housing Replacement (7 in Right or Left, Includes 2 Bolts, 2 Nut Lock Washer Sets and Rubber Grip Handle)

Hall Part # 8980-2-200: Base Ring Assembly with Gasket (Includes the Gasket attached to a nut)

When our customers complete the rehub on the line, it takes about 10 minutes and avoids the need to take the unit out of service and back to the shop. However, they also are easy to rehub in the shop.



New Stainless steel screen inserts to keep debris from entering aircraft. Molded EPDM Gasket that has proven to last up to 24 months.



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- Protects Duct from Getting Damaged.
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NEXT GEN PAC Trilectron/Air-a-plane

Trilectron/Air-a-plane introduces the next generation of preconditioned air units: DAC320 Series PC Air. Units are equipped with high-efficiency, zero ozone-depleting refrigerant to cool any aircraft type under the most demanding conditions. The design allows flexibility to use in fixed or mobile applications. The units are available in various sizes to provide the optimal delivered air temperature, volume and static pressure to cool or heat any commercial aircraft.



JB360 SWIVEL AIRCRAFT ADAPTER J&B Aviation Services - An ITW GSE Group Company

J&B Aviation Services' JB360 Swivel Aircraft Adapter for heating and air-conditioning uses the latest advances in composite technology in the seamless fabrication of the Swivel PCA Adapter components. This product is UV-resistant and designed to withstand chemicals, fuels and solvents generally found in the harsh ramp environment. The PCA connection system features rugged construction and lightweight design.

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ELECTRIC HYDRANT DISPENSERS Liquip International/ Beta Fluid Systems

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Tronair products include: towbars; electric towbarless tugs ranging in capacity from 30,000 to 100,000 pounds; electric baggage/tow tractors; tripod and axle jacks; tail, work and engine stands; engine slings;

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Fortbrand Services has been in the business of leasing, financing, renting, maintaining and dealing in aircraft ground support and refueling equipment for more than two decades. The company uses its experience and expertise to provide tailor-made programs to meet the specific requirements of its customers. Fortbrand Services also engages in related activities, including equipment appraisals, consulting, installation of specialized airport facilities projects, as well as acting as a distributor for the sale and lease of unique airfield maintenance equipment.



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AVIATION SERVICES - ASIG
ASIG (Aircraft Service International Group)

ASIG is one of the largest independent aviation services companies in the world with substantial operations in over 65 cities throughout North America, Europe and Asia. For more than 55 years, the company has been providing ground handling, fueling, passenger, cargo, deicing, and airport facility services to commercial airlines and airports around the globe.



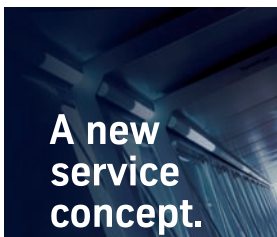
FUELING COUPLER
Eaton Aerospace Group

Eaton's Model 64910/64810 coupler's lower half have been completely redesigned. Incorporating three detent pins, an internal collar locking device and new collar lifting handle, this new design provides improved ergonomics and operational handling during disconnect.

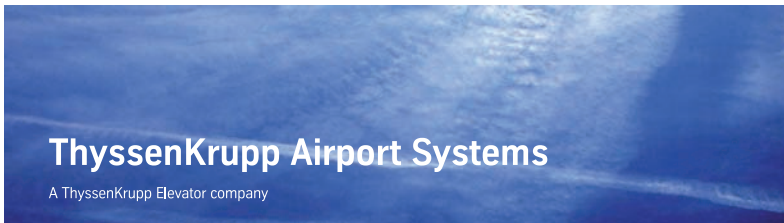
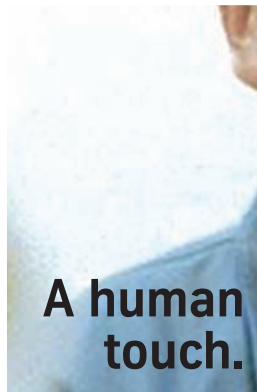


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PACTS, Inc.

Pacific Air Cargo Transfer Systems, Inc., (PACTS) manufactures and distributes ergonomic GSE safety products. The patented designs of our high-visibility Ergo-Chocks weigh 50 percent lighter per square inch as compared to traditional solid rubber chocks. This helps reduce injury and risks; and improve productivity with enhanced product functionality.



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WHEEL AND BRAKE DOLLY ColumbusJACK/Regent

The wheel and brake dolly - with a 750-pound capacity - is used worldwide by most major airlines, making wheel changes a one-person operation. It is a portable, self-contained unit capable of handling and transporting either a wheel/tire or brake assembly during the removal from or installation on an aircraft. A single-speed, hand-operated hydraulic jack is centrally located on the dolly structure to provide vertical lift. A release valve is provided on the jack for lowering the dolly. Our wheel and brake dolly is built to withstand harsh environmental conditions, rugged use and to provide many years of continuous service.



COMPRESSOR WASH RIG A.T. Juniper (Liverpool), Ltd.

The 2x25 gallon engine compressor washing rig is the mainstay of the Juniper range. Versatile enough to tackle most engines when partnered with our growing list of wash probes, lances and spray rings, yet maneuverable enough for the remotest areas of an airfield.



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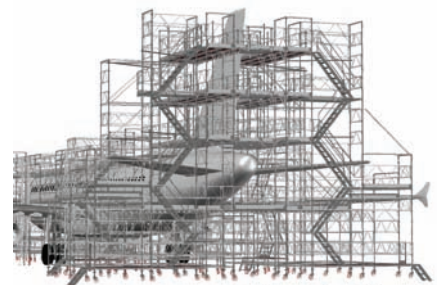
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VERTICAL-TANK STATIONARY COMPRESSORS
Jenny Products Inc.

Jenny Products, Inc., a long-time manufacturer of portable and stationary compressors, offers a line of electric two-stage, vertical-tank stationary air compressors. Especially suited for applications requiring greater pressure, the two-stage models provide 175 psi and displace between 9.1 and 43.6 cfm.



AUTO AND TRUCK LIFT
Mohawk Resources, Ltd.

Mohawk Lift's introduces a new TR-30 four-post 30,000-pound capacity auto and truck lift. Mohawk's TR-30 features all position safety locks, pivoting approach ramps, and a 6-foot 11-inch lifting height. Mohawk's TR-30 is ALI/ETL-certified to meet the one and only nationally recognized safety standard for vehicle lifts. The Mohawk TR-30 is proudly designed, welded, and manufactured in the U.S.A.



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FluidTran Inc.

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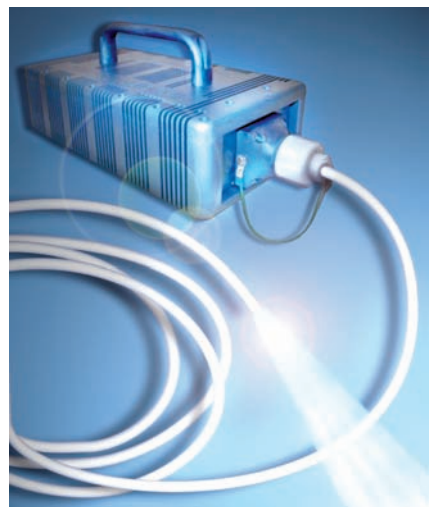
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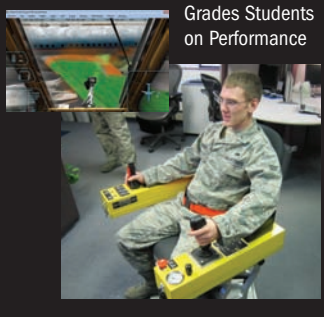
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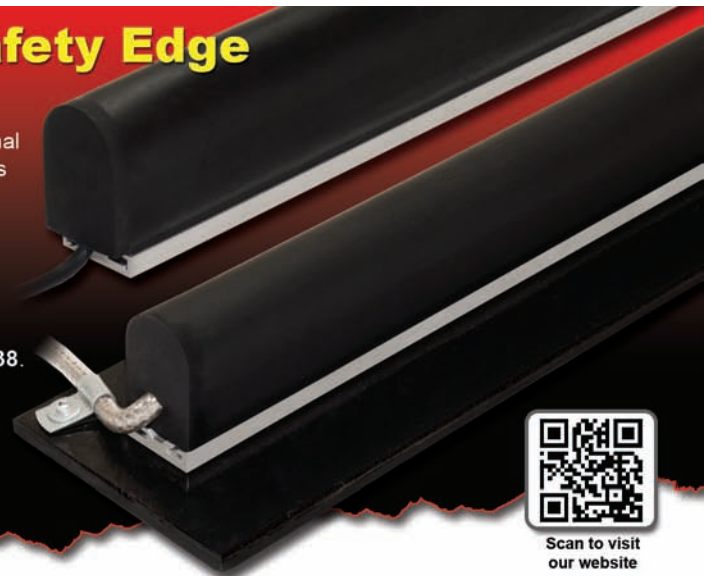
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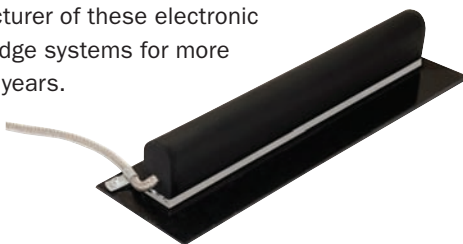
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- Audits
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