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GROUND SUPPORT

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2013-2014
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GROUND SUPPORT WORLDWIDE

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Cygnus Reprint Services

To purchase article reprints, please contact Wright's Media at 877.652.5295 or email info@wrightsmedia.com.

Subscription Policy: Subscriptions are free to qualified businesses. Others may purchase subscriptions at these rates: US, 1-year \$40, 2-years \$80; Canada & Mexico, 1-year \$60, 2-years \$115; All other countries, via airmail, 1-year \$90, 2-years \$170. Single copies \$10.

Ground Support Worldwide (USP 015-386, ISSN 1934-2861 print, ISSN 2150-4016 online) is published ten times annually in February, March, April, May, June/July, August, September, October, November and December/January. Periodicals postage paid at Fort Atkinson, WI and additional mailing offices.

Change of address or subscription information: Toll Free – 877-382-9187, Local – 847-559-7598, circ.groundsupportww@omeda.com

POSTMASTER: Please send address changes to *Ground Support Worldwide*, Cygnus Business Media, PO Box 3257, Northbrook, IL 60065-3257. Printed in the U.S.A.

Canada Post: PM40612608. Return undeliverable Canadian addresses to: Ground Support Worldwide, PO Box 25542, London, ON N6C 6B2.



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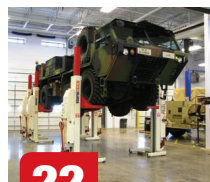
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AviationPros LIVE ... Powering Aviation From The Ground Up!

AviationPros LIVE is scheduled for March 25-26, at the Sands Convention Center in Las Vegas.

By Missy Zingsheim



Bill Biermann (center) received our Lifetime Achievement Award at the 2013 show.

Fall is here and the year is almost over ... if you can believe it. Before you know, it will be 2014! Speaking of 2014, *Ground Support Worldwide* is the official publication of AviationPros LIVE, and it will be the best opportunity of the year to network and form business relationships. The annual trade show is the ultimate arena to find products and services that you need for your day-to-day operations.

AviationPros LIVE is scheduled for March 25-26, at the Sands Convention Center in Las Vegas. Registration is now open and free until Dec. 31, 2013. Go to www.AviationProsLIVE.com and register today!

In 2014 we are focusing on really creating a sense of community for the show and offering networking opportunities for everyone involved. On Tuesday night, March 25, we will have our opening night reception with our **Ground Support Leader of the Year Awards**. Come and celebrate with your peers in the industry as our three winners are honored for the work they have done in the GSE industry.

And on Wednesday night, March 26, is a good old-fashioned **Chili Cook off**, with music performed by Aaron Tippin. Come enjoy some chili, vote for your favorite and listen to some

great music. We will also be introducing the **Aviation Wall of Fame**, where we honor years of service in aviation so register early to make sure you are included on the **Aviation Wall of Fame**.

Also before the start of the show, *Ground Support Worldwide* will be co-hosting with PAGE Industries the **1st Annual GSE Leaders Golf Invitational**. The Invitational will be held on Monday, March 24, at the beautiful Revere Golf Club in

Henderson, NV.

Can't wait to see you all there! If you would like any information on the show please let me know.



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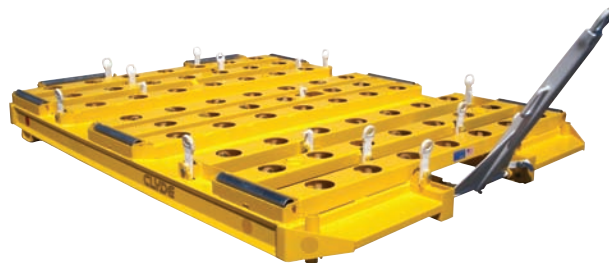


Walk Behind Belt Loader

Wasp Inc.

The unit will service all aircraft having lower lobe doorsill heights ranging from 36 1/2 inches to 108 inches with 119 inches optional. The belt loader features Kohler® Command 18 gasoline engine; variable speed belt with controls mounted on both ends of the belt; automatic hydraulic braking; pneumatic tires and epoxy powder-coated per customer color.

AviationPros.com/product/11218005



Covered Pallet Trailer

Clyde Machines Inc.

The 15F2862 15,000-pound capacity trailer has a new recessed frame to protect customer markings. This Covered Pallet Trailer will hold LD1, 2, 3, 4, 7, and 8 containers, or 88-inch x 125-inch, 96-inch x 125-inch, and 88-inch x 108-inch pallets. With its actuated towbar, self-adjusting rear brakes and 4 x 8, three-stage solid tires, this durable trailer is a Clyde featured product with a quality powder coat finish.

AviationPros.com/product/10779066



Conveyor Belting

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Thermoid® PACK-EZ S/Weave conveyor belting is approved and preferred by all major, package handling companies. Especially suited for slider bed systems, these belts are built to resist abrasion, stretching and fire.

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David Clark Company Inc.

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Glycol Blenders Liquid Automation Systems (LAS-USA)

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Wireless Deicing Headset Flightcom Corporation

Wireless Headset Communication System for Deicing Operations – Our wireless headsets keep the driver and sprayer in constant two-way voice communication like a phone call. Superior audio quality; proven in wide deployment.

AviationPros.com/product/11191757



Glycol Recovery/Airport Sweepers

Elgin Sweeper Company

Elgin Sweeper Company provides world-class environmental technologies to meet essential airport applications. Product applications include runway sweeping, parking lot sweeping and glycol recovery.

AviationPros.com/product/11192317



Deicer Specialist Ground Support Specialist LLC

Ground Support Specialist is a manufacturer of new and used ground support equipment. GSS specializes in the manufacturing of new deicers with current and modern technology to better help the needs of airlines.

AviationPros.com/product/10812531



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 forward-mounted for greater versatility and visibility of the operator.

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Centrifugal Pumps The Gorman-Rupp Company

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AviationPros.com/product/11191767



Fuel Cabinets Sparling Corporation

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AviationPros.com/product/11196754

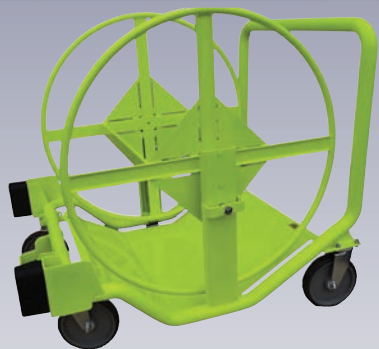


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- 400Hz Test Equipment
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- 400Hz Solid State and Motor Generator Equipment
- Passenger Boarding Bridge Baggage Chutes and Gate Park Systems



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Towable Stationary Hydrant Cart

Liquip International | Beta Fluid Systems Division

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J&B Aviation Services - Hobart Ground Systems

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AERO Specialties

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MCM Engineering Inc.

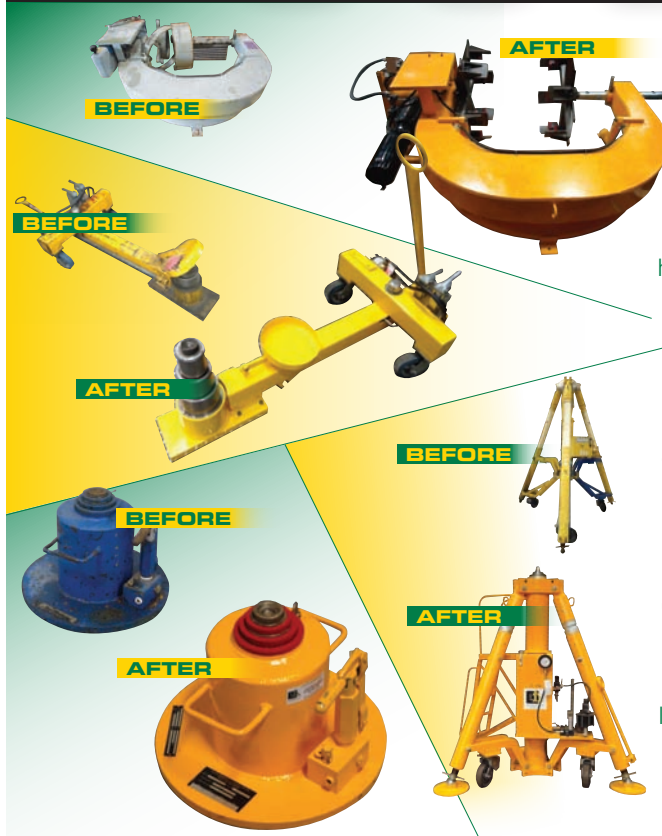
The MCM GOLD X Nose used on MCM 400Hz Aircraft cables, is made from a material with high impact strength to help protect the power and relay contacts. A very low coefficient of friction makes it very resistant to abrasion.

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The PwrKart™ Series includes lightweight 115/200V AC, 400 Hz, 28V DC and 270V DC mobile converters for aircraft ground power applications in the hangar or ramp area.

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HBD/Thermoid's Aeroduct® Jet Starter Hose/Scuffer Jackets work effectively in temperatures from +500 F to -80 F, are easy to handle, offer high burst strength (+400 PSI) and resist abrasion, fuels and/or mildew.

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This patented 270v DC/400 Hz dual output converter from Hobart is the first power supply of its type in the industry. It can supply power to legacy aircraft with 400 Hz AC electrical system and newer aircraft with 270v DC. It is UL1012-listed, meets UFGS specifications and exceeds MIL-STD-704F

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Diesel/Lithium GPU Start Pac/Rotorcraft Enterprises LLC

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AND TELECOMMUNICATIONS
MIAMI INTERNATIONAL AIRPORT



Diesel GPU

TUG Technologies Corporation



The Davco GP400-120 ground power unit is a diesel-powered generator that provides regulated 120 kVA, 400 Hz, 115/200V AC, three-phase power to aircraft. Simplicity, ease of service and maintenance, durability and performance were the primary design objectives. With the 28.5V DC rectifier option, the unit can also provide power to aircraft requiring 28V DC at 600 amps continuous and 2,000 amps peak.

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Multipurpose GPU

JBT AeroTech, Jetway Systems

The Jetpower® D90 Diesel GPU will service a narrow- to mid-body commercial aircraft, and with the 28V DC option the unit can service RJ-type aircraft. For military applications, small cargo aircraft can be serviced.

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Dual Purpose GPU

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The Foxcart ground power unit is designed to provide smooth high current DC power to aircraft during engine starts or ground maintenance operations. The Foxcart is available in a 208-240 single-phase unit, or a 208-480 three-phase cart. The units can easily be strapped for different power/mission requirements.

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- Track consumption and level patterns by event, product and tank
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Electric Hydrant Dispensers Liquip International | Beta Fluid Systems Division

Liquip International's ALL-ELECTRIC Hydrant Dispensers offer the efficiency and safety of our standard vehicle but with the significant difference of having the diesel engine replaced by a 96V DC battery-powered motor and ancillary drives. Solar panel provides continuous battery top-up all day.

AviationPros.com/product/10027335



Electric Tugs/Beltloaders Compass eGSE LLC

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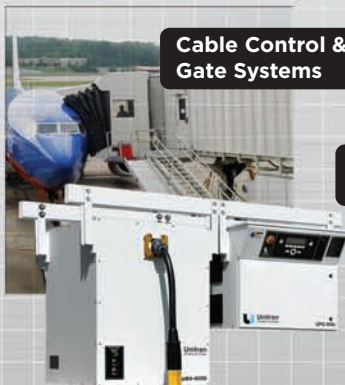
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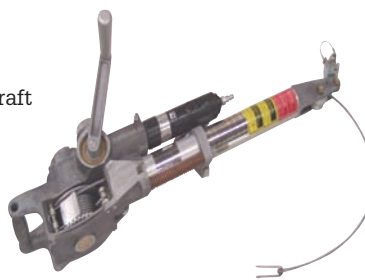
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Malabar International

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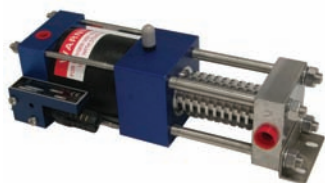
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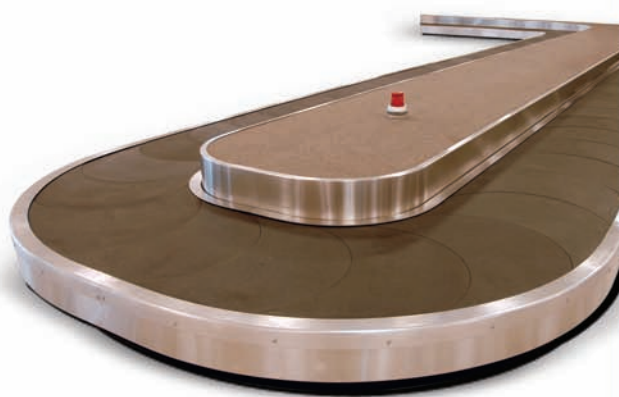
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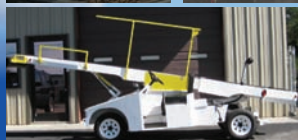
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Steve Smith

If It's Tuesday, It Must Be GPU Day

This year's inter airport Europe featured more GSE.

By Steve Smith

Atending inter airport Europe reminds me of those whirlwind tours of Europe that whisk Americans from Paris to Brussels to Düsseldorf until everything becomes a dizzying blur of, in our case, deicers, belt loaders, GPUs and the like.

Want to see a three-wheeled tow tractor? You got it. How about a cargo loader fueled with hydrogen? You bet. In the market for streamlined snow removal trucks? It's on the left and all the way back. An electric-powered highloader? Don't tell me you missed that. It's the only one of its kind.

Although the big draw is the sheer amount of equipment, a trade show also serves as an industry checkup. And as far as our industry goes, I can tell you that this year's show featured more GSE.

The show had been holding steady at attracting an overall total of 600 exhibitors. But this year's show featured 20 percent more outside exhibit space. To Show Director Nicola Hamann that only means one thing:

"This is clearly GSE-related because no one will go outside with an IT solution or terminal furniture," she told *Airport Focus* in an interview conducted a week before the show opened on Oct. 8.

In fact, the GSE exhibits have turned into one of the most significant areas of growth for the show.

"We have a unique outdoor area for people to display heavy-duty equipment such as snow plows and deicing machinery, and I think this is really a big draw," she added. "We didn't used to see an awful lot of activity in this area, but now I think it has really picked up. This has a lot to do with investment cycles for new equipment that represent large capital investments for airports."

A few other thoughts on the show:

Where's the money going? According to research from ACI Europe, five airports in emerging markets with more than 40 million passengers reported double-digit growth rates in 2012. These airports are Istanbul (21 percent); Dubai (13 percent); Jakarta (12 percent); Bangkok (11 percent) and Singapore (10 percent). In contrast, airports reporting from Europe and North America overall eked out a 1.7 percent and a 1.2 percent growth rate, respectively.

Then again ... The United States represents the single largest market for airport airside services as stated by a new research report. We'd tell you more, but the full report costs \$4,950.

Innovators aren't waiting for the "right" time. The show's Innovation Awards program featured 89 entries.

What's more, the ramp category at 33 had the most products - more than double the second-highest category for the terminal.

By the way, GSE maker Denge Airport Equipment, Istanbul, Turkey, won the most innovative ramp product for its EAV4500 or "Ambulift." As the name implies, the vehicle is designed to transport passengers who require a high degree of medical care.

So growth and innovation are ours.

A stylized, handwritten signature in black ink, likely belonging to Steve Smith.

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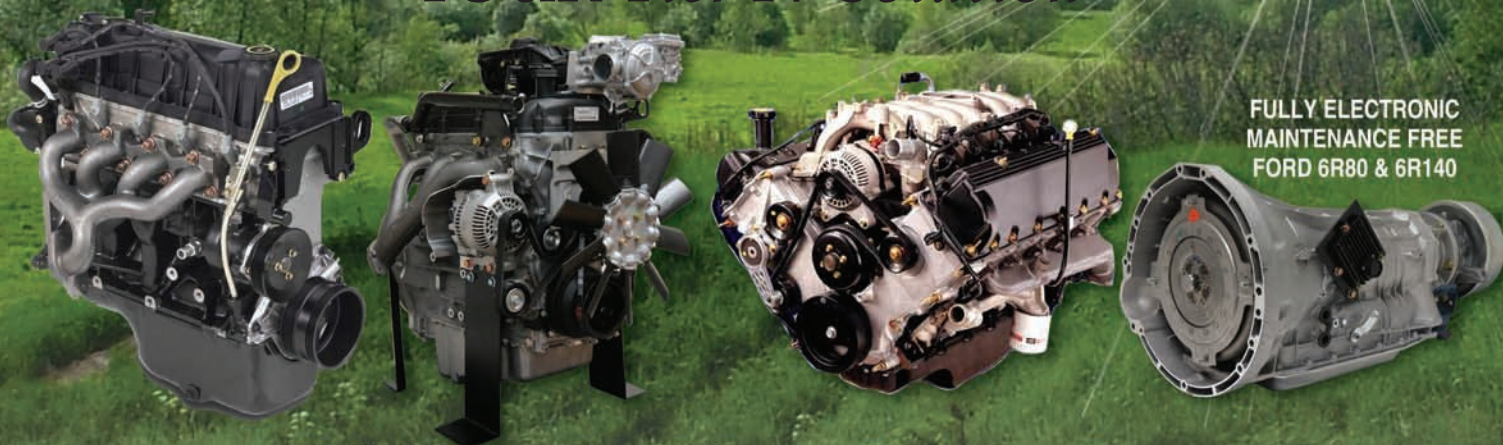
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