

Ground Support

WORLDWIDE

EQUIPMENT – SERVICES – HANDLING

WILCOX GROUND SERVICES

PAR-KAN COMPANY

TRONAIR, INC.

PAGE 6SE

TEXTRON GSE

SALEM-REPUBLIC RUBBER

LAS-USA

JBT AEROTECH

DAVID CLARK

UNITRON POWER SYSTEMS

ENGINE DISTRIBUTORS INC.

B GSE



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INNOVATIONS THAT WORK

400HZ SINGLE JACKET POWER CABLES

Simply the most advanced, safest, and robust cable available in the industry today. Available in a vast array of lengths and configurations with features such as:

- Molded on connector with internal reinforced strain relief.
- Optional Plug & Play modular switch assemblies for a variety of remote applications.
- Redundant safety protection to sense high temperatures and the loss of the neutral conductor.
- The only integrally molded nose plug with our rugged protective tip. **NO DANGEROUS FLOATING CONTACTS!**



8" PRE-CONDITIONED AIR CONNECTOR

PCA610 is the premier PCAir Connector in the market today incorporating:

- Built in swivel.
- "High flow" screen.
- The industry's best and longest lasting snap-in gasket.



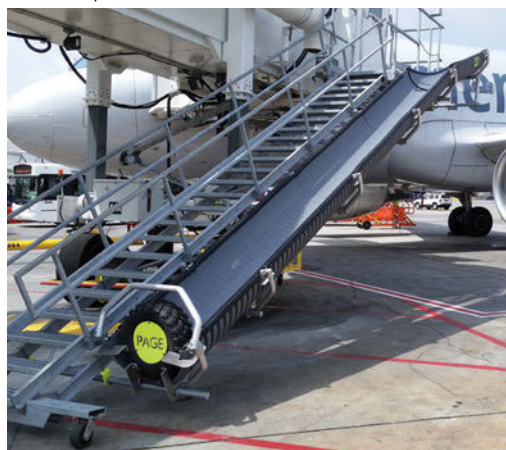
PAGE GSE, known as the industry leader in innovation and for bringing new products to market, has been listening to their customers to determine, design and introduce what the airline industry wants and needs. **PAGE GSE** is committed to advancing the work environment in the GSE industry.

JET BRIDGE BAGGAGE CHUTE

P6000 Baggage Chute utilizes modern manufacturing techniques for the sturdiest and safest method to transfer luggage from the jet bridge to the tarmac.

INNOVATIONS INCLUDE:

- Robust design with easy installation.
- Optional service platform for holding chocks, cones, wands, and F.O.D. bin.



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LINKEDIN
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ROLLER TABLE

Wilcox Ground Services

The Wilcox ULD pallet rack/storage rack are available in various standard or custom sizes to accommodate any ULD style with load capacities up to and exceeding 15,000 lbs. Gravity rollers come standard with sealed, shielded greased bearings, can be custom built for extreme temperature ranges, heavy loads, high speeds, dirty, corrosive and wash-down environments. Available pallet rack options include, but are not limited to, height adjustable legs, gripstrut walkways, locks and stops.

AviationPros.com/21110830



MILITARY K-LOADER (KL-11000)

Timsan

Capable of carrying 12 tons with four L-463 military pallets, the K-Loader has a tiltable platform that moves forward and in reverse, as well as left to right. Air transportable, it is able to serve any type of military and civil cargo aircraft. The vehicles is PLC driven and CAN BUS controlled.

AviationPros.com/12428432



TC-999 MOBILE BELT LOADER

Wollard International

TC-999 is a fast and economical way to load and unload baggage. The roller-conveyor extends around corners – stays level with the aircraft and helps boost crew efficiency. The TC-999 has a unique tubular chassis that deflects impacts. It is available in gas, LP, dual fuel, diesel and electric (AC and DC). Electric field retrofit kits are also available.

AviationPros.com/12228876



TRANSFER BELT

Power Stow Americas, Inc.

Power Stow's ergonomic unloading aid can increase throughput with easier, more productive and faster unloading of baggage and cargo. The Transfer Belt is designed to transfer bags from various types of containers and carts onto the conveyor belt. Using the Transfer Belt can significantly reduce baggage handlers' workloads. Heavy twisting and lifting movements become obsolete.

AviationPros.com/21112431



HEAVY DUTY AIR CARGO/CONVEYOR CASTERS

Casters In Motion

The Heavy Duty Air Cargo/Conveyor Casters are specifically engineered for inverted applications such as cargo sorting decks, cargo dollies and conveyor lines. They are virtually maintenance free and reduce the frequency of replacement.

AviationPros.com/21093659



P6000 BAGGAGE CHUTE PAGE GSE

The PAGE GSE P6000 Baggage Chute utilizes modern manufacturing techniques, making it easy to install. The P6000SP Service Platform can be mounted to any baggage chute for storage of chocks, safety cones, wands and includes a secure FOD bin.

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It's below zero. Wind is howling, spray is blinding, fingers frozen.

How's your deicing communication?

Contact David Clark for rugged, reliable communication solutions in the most demanding deicing environments. You'll save time, valuable fluids and enhance the overall efficiency and safety of your deicing and anti-icing operations.

Call **800-298-6235** (508-751-5800 Outside the USA) to arrange a **system demonstration** or visit **www.davidclark.com** for more information.



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CONTAINER AND PALLET DOLLIES

Par-Kan Company

Par-Kan Company offers a wide range of both container and pallet dollies to suit various operational needs. All container and pallet dollies can be configured for side- or end-loading with a roller or caster deck. Each dolly features heavy duty pallet stops and VR locks. An ergonomic torsion relief tow-bar with tow-bar activated braking system comes standard with each dolly as well as a powdercoat finish.

AviationPros.com/21112081

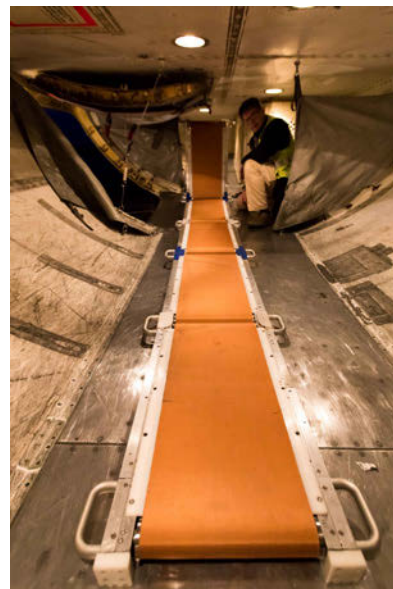
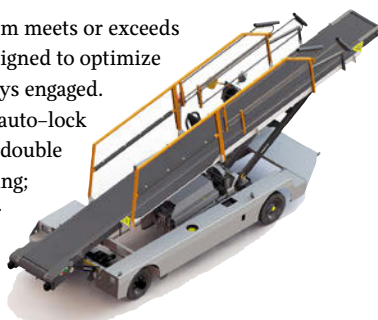


RAMPTECH BELT LOADER SAFETY HANDRAIL SYSTEM

Sage Parts

The Ramptech Belt Loader Safety Handrail System meets or exceeds OSHA requirements. The fixed rail system is designed to optimize operator safety by assuring that the rails are always engaged. Other key features include single hand operated auto-lock handle mechanism with over-engage protection; double weld construction; reinforced stainless-steel tubing; textured powdercoat paint for improved operator grip; non-slip surface walkway with Rhino Linings; and an ergonomic rear grab bar.

AviationPros.com/21087777



TISABAS

Ramper Innovations

TISABAS is a compact motorized folding conveyor system that goes into the belly of narrow-bodied aircraft and mechanically moves baggage, eliminating the need to throw heavy luggage and commodities the length of the aircraft. It reduces time and operational costs while making ramp agent jobs safer, easier and more efficient.

AviationPros.com/21110619



BAG LIFT

Austral Star LLC

The Bag Lift can solve the problem of gate checked baggage handling. At concourse level, bags are placed into a cart built into the walls of a PBB walkway. The gate agent closes the door and sends the cart to the ramp, where workers wheel it to the aircraft for loading.

AviationPros.com/12390296

KINGPINLESS CASTER

RWM Casters

RWM Casters is the originator of the Kingpinless caster. Kingpinless casters offer a solution for demanding tow and high impact applications to reduce downtime, eliminate FOD hazards and improve long term performance. RWM offers high quality U.S. made casters available while using the best rated materials in the industry.

AviationPros.com/21110607



ULD EXPLAINED

ULD CARE

ULD Explained provides simple, jargon-free explanations with comprehensive illustrations covering the basics of ULD operations and handling. The ambition of ULD Explained is to fill a shortage of basic, easy-to-read and easy-to-understand ULD material for those who are new to ULD or those who are working with or around ULD but have never had the benefit of formal instruction.

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FIRST OF ITS KIND

SAFETY PRODUCTIVITY DESIGN

We've set out to build a new single-aisle pushback with one thing in mind—a safer operator experience. It was designed from the ground up to offer best-in-class space and ergonomics—plus unmatched ease of maintenance. There's only one, and it's coming in 2020.

Be the first to see all the features that put this new pushback on top at TugAlpha1.com

TUG™ > **ALPHA 1**
COMING 2020

COMMANDER 30i JBT AeroTech



The Commander 30i Aircraft Container and Pallet Loader is a single-operator, self-propelled vehicle capable of handling containers or pallets and servicing a variety of aircraft. Its design concept utilizes the latest technology and incorporates modular power units, improved conveying system, electrical systems and hydraulic components. Power units can be a variety of diesel engines or electric motor.

The electrical system is PLC controlled and the hydraulic system is closed-center and load-sensing. Two hydraulic motors power the planetary drive wheels to propel the vehicle. There is an electric power plant option in place of the standard diesel engine. The Commander 30i vehicles are available in different configurations.

AviationPros.com/21112647

FLEET

Vanderlande Industries, Inc.

Vanderlande's FLEET is a flexible logistics solution. By utilizing intelligent automated guided vehicle (AGV) technology, FLEET replaces the need for fixed conveyors and sorting systems. Each individual vehicle within the fleet carries a single bag and determines the most optimal route through an airport. In addition, a vehicle can be given priority, which helps to safeguard the delivery of bags on time.

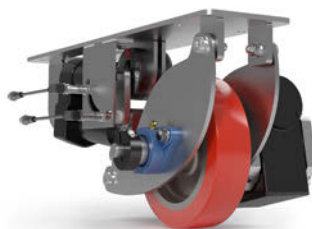
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CARGO PALLET TRAILER Clyde Machines Inc.

The Caster Bed Cargo Pallet Trailer offers protected lead on rollers and casters mounted in recessed cross members. Tine way pockets protect casters from forklift damage. This trailer also has tow-bar actuated self-adjusting brakes and recessed sides to protect customer markings.

AviationPros.com/12377458



DRIVE CASTERS Caster Concepts Inc.

Drive Casters from Caster Concepts, can ramp up productivity and prevent employee injury simply by automating the process. Drive Casters are easy to install and fit on just about any piece of equipment and allow a single operator to start, maneuver and stop a heavy load effortlessly using a control panel and tank steering.

AviationPros.com/12420089



POWER PUSHER WITH FREIGHT ATTACHMENT Power Pusher, Div. of Nu-Star Inc.

The Power Pusher with Freight Attachment improves operator safety, reduces manpower and increases ground support productivity with less downtime by transporting heavy loads fast without excess exertion or muscle strain. It enables a single person to maneuver from 500 to 50,000 lbs. with total control. The electrically powered, compact tug replaces large, expensive material handling equipment moving bag carts, mobile air conditioning units, air starters, lavatory carts and more.

AviationPros.com/21110555



RIP-STOP BAGGAGE CART CURTAINS Estex Manufacturing Co. Inc.

Estex Manufacturing's FR700 Rip-Stop Bag Cart Curtains, dramatically increase the life of the curtain while decreasing the repair/replacement expense and labor cost. The unique nature of this material prevents punctures from spreading and provides handlers the opportunity to repair the curtain as opposed to replacing it like traditional curtains.

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WE ARE YOUR GSE SOLUTION PROVIDER



Setting the Worldwide Standard in GSE.

Tronair and the Tronair group of companies including Columbus Jack, DAE, DatcoMedia, Eagle Tugs, and Malabar, proudly support a wide range of products and segments of the aviation industry. Tronair has differentiated itself in the market by offering a diverse and unparalleled range of high quality GSE product lines. Extensive engineering capabilities and customer collaborations drive innovative solutions that support safe and efficient aircraft ground and maintenance operations. Our Swanton, Ohio facility occupies over 300,000 sq. ft. On-site processes include machining, fabrication, powder paint, 2- part epoxy coatings and assembly. Total control over the manufacture of our products enables us to produce the best GSE products in the world. To learn more please visit www.tronair.com.

TRONAIR®



CMC-4000 TOWABLE TRASH CART

Par-Kan Company

The Par-Kan CMC-4000 Towable Trash Cart is ideal for collecting bags of trash at the airport as well as quarantining trash from flights prior to inspection. The cart features three large hinged lids and a sloped stainless steel leak proof floor with drain valve to clean out any liquids.

AviationPros.com/12375307



E-CATERING WIESEL

Kamag Transporttechnik GmbH & Co. KG

The electro-hydraulically driven E-Catering Wiesel (ECW) can help airports minimize CO2 emissions on the apron. The ECW has a 156 kW electric motor that directly drives the rear axle of the vehicle without having a gearbox or converter fitted in between. The working hydraulics of the vehicle are in turn driven by a separate electric motor. It can service a large range of transfer heights.

AviationPros.com/21112657



FLIGHT CATERING HI-LIFT

Nandan GSE Pvt. Ltd.

A wide variety of chassis, designs, ancillary features, customization and functionality are available on Nandan Hi-Lifts. Features include ergonomic control systems; full cabin (2,700 to 600 mm); chassis (16 or 11 ton GVW), half cabin (1,600 to 6,000 mm) with insulated or non-insulated bodies and FRP bodies. Customization is also available with the help of four catering models: Catering Petite, Catering Superstar, Catering Champ and Catering Titan.

AviationPros.com/10027554



X-CAT M CATERING LIFT VEHICLE

DOLL Fahrzeugbau AG

The X-CAT M Catering Lift Vehicle from DOLL Airport Equipment GmbH offers a half-section chassis. The main focus is the new DOLL SAS sensor system, in conjunction with a 360° camera system. The sensor system permanently monitors the environment during the docking process. At the same time, the system not only detects the fuselage but also any obstacles.

AviationPros.com/21096732



MH 10x12 HIGH-LIFT

Smith Transportation Equipment

The STE MH 10x12 High-Lift is capable of servicing door sill heights ranging from approximately 55 to 100 inches. Mounted on either a gas or diesel chassis, this vehicle's 12-foot van body and smaller footprint make it an ideal choice in areas where ramp space may be tight.

AviationPros.com/12376446



CATERING/CABIN SERVICE TRUCKS

Global Ground Support

Catering/Cabin Service Trucks are available in various sizes: 18 foot wide body, 22 foot wide body, 16 foot narrow body and 14 foot narrow body. RJ 1/2 cab service also available.

AviationPros.com/10026400





ALL *Electric*
COMMANDER 30i

EASY TO OPERATE

EASY TO MAINTAIN

GREAT RELIABILITY

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DEICECUBE GLYCOL MIXING AND DISPENSING SYSTEM

Liquid Automation Systems (LAS-USA)

The LAS DeiceCube Glycol Mixing and Dispensing System provides user friendly, reliable, accurate and fast mixing of glycol and water to meet all weather conditions. It can reduce glycol usage, costs and environmental impact and improve throughput. It eliminates tripping hazards and reduces operator burden of handling heavy hoses on slippery ground, and it enables simultaneous loading of Type I and Type IV fluids.

AviationPros.com/12378696



GS1400SG AIRCRAFT DEICER

Ground Support Specialist LLC

GSS's Second Generation Series line of deicers offers a 40-percent increase in fuel efficiency over conventional two-engine deicers, along with a substantial reduction in both deicing fluid usage and carbon footprint emissions. The GS1400SG does this while still maintaining ease of operation, the highest levels of reliability and the lowest maintenance costs of any deicer in its class.

AviationPros.com/21112510

220 DEICER

Textron GSE - Safeaero

The Safeaero 220 Deicer can perform deicing operations on aircraft ranging from regional jets to the Airbus A380. This true one-person operation deicer has an average completion time of 90 seconds, a state-of-the-art spraying and blending system that reduces fluid consumption, automotive steering, wireless reporting system and much more.

AviationPros.com/12339455



DEICING NOZZLES

US Airmotive GSE

U.S. Airmotive GSE is a distributor of deicing nozzles manufactured by Task Force Tips. A single nozzle can be used in two steps to both deice and anti-ice aircraft. The operator simply selects the desired fluid delivery system pressure, and the nozzle responds automatically. TFT backs its nozzles with a five-year warranty.

AviationPros.com/10724697



ULTIMATE ONE SINGLE ENGINE DEICER

Global Ground Support

The Ultimate One Single Engine Deicer has been changed from the inside out. Features include one engine, reduced fuel usage and lower maintenance costs with higher reliability. New products and technologies have been integrated to eliminate the need for an auxiliary engine. The Ultimate One Deicer is available with all Global options and configurations, including single operator, premium blend, AirPlus and XR.

AviationPros.com/21110566



SERIES 9900 WIRELESS COMMUNICATION DEICING SYSTEM

David Clark Company Inc.

The David Clark Series 9900 Wireless Headset Communication system for deicing and anti-icing operations allows hands-free communication between the driver and bucket, clearly and in real time, and helps to prepare the aircraft exterior for on-schedule departure in a safe, efficient manner.

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TEMPEST I

JBT AeroTech

The JBT Tempest i was a two-year project incorporating customer feedback based on experience of more than 1,300 units in the field. Additions include automated control of boom positioning, auto boom park and operator skill level boom speeds. Upgrades include the control system with key functions integrated into joysticks, intuitive diagnostics and excellent maintenance access for quick and easy repair. The Tempest i uses the Air First Deicing system, single-operator system and single-engine design, all targeted to safely reduce environmental impact and operational costs.

AviationPros.com/12435237



MULTI-SOLUTION GATE

MSG Production AS

The Multi-Solution Gate (RS500) dual system offers complete deicing and washing functionality, while special high-resolution cameras will scan the condition of the entire airframe. The RS500 is a complete washing facility. The systems offer time and cost savings and are a green choice as up to 95 percent of spent fluids used are collected and recycled in a closed environment.

AviationPros.com/21092855



WIRED & WIRELESS HEADSET COMMUNICATION SYSTEMS FOR DEICING OPERATIONS

Flightcom Corporation

The wireless headset communication system for deicing operations keeps the driver and sprayer in constant two-way voice communication like a phone call. The system offers superior audio quality, and has been proven in wide deployment.

AviationPros.com/12377769



WING ARMOR ANTI-ICING SYSTEM

Leading Edge Deicing Specialists

The Wing Armor Anti-icing System tracks the amount of fluid dispensed to prevent over-spray. Two TURBO XL digital meters on the unit accurately measure the anti-icing fluid sprayed from each gun. The pressurized system applies fluid with dual application guns with dual meters, ensuring even application on both wings and allowing crews to spray both wings simultaneously. The system offers a low profile that enables it to fit underneath the wings of most business jets. The unit, which weighs less than 1,000 pounds when full of fluid, also features a tow-bar so that it can be hooked up to a tug and moved around.

AviationPros.com/12081513



OPEN BASKET AIRCRAFT DEICING MIXED REALITY TRAINING SIMULATOR

KBY Software LLC

The KBY Software Open Basket Aircraft Deicing Mixed Reality Training Simulator provides a 24/7 environment for initial entry and recurring training in dual operator open basket aircraft deicing. The system utilizes a VR headset with a pass through video stereo camera system to support student interaction with physical controls.

AviationPros.com/21087766



PPS – PRECISE POSITIONING SYSTEM

Vestergaard Company Inc.

The Vestergaard Elephant Beta deicers can be supplied with the PPS – Precise Positioning System. PPS helps constantly ensure the correct, optimal distance between the nozzle and aircraft – typically 1 meter, improving safety and reducing workload for the operator. With shorter spray distances, the highest possible ADF temperature can be kept, thereby maximizing energy transfer from fluid to aircraft. Compared to a spray distance of 2 meters, the ADF temperature can be 10 to 40 degrees C higher.

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COOLJET

PILLER

HANDHELD AND ELECTRIC REMOTE NOZZLES

Task Force Tips Inc.

TFT manufactures handheld and electric remote nozzles for anti-icing, deicing and combination applications. Nozzles are available with different flows and pressures as well as traditional and trigger models.

AviationPros.com/21110554



DRAIN GUARD

Inland Technologies International Ltd.

Inland's Guard is an under-grate drain block valve designed to prevent liquids from reaching stormwater systems. It is used to contain spent aircraft deicing fluid and fuels. The Guard is robust and easy to operate. Because of its unique design, it is virtually impervious to freezing. Under normal conditions, the Guard is opened for uninterrupted stormwater flow. In the event of a spill – or as a preventative containment measure – the valve can be sealed within seconds.

AviationPros.com/12310352



REFRACTOMETER

MISCO Refractometer

MISCO digital handheld and inline process refractometers are custom programmed for accurate field testing of both Type I and Type IV deicing and anti-icing fluids, jet fuel and glycol recycling. A NIST-traceable certificate of calibration is also available. MISCO's lab can provide independent analytical viscosity testing of Type IV fluid.

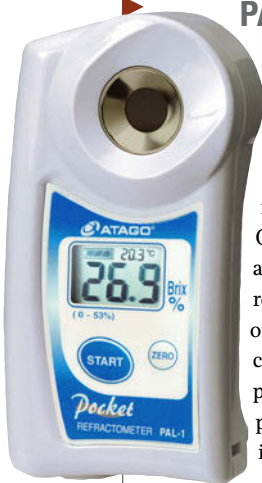
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PAL-1 POCKET REFRACTOMETER

ATAGO USA, Inc.

ATAGO manufactures refractometers for checking deicing/anti-icing fluid concentrations. Offering both digital and analog units, these refractometers are capable of accurately measuring concentration and freezing point of ethylene glycol and propylene glycol solutions in just a few seconds.

AviationPros.com/12153064



TSU MONITOR

TankScan/ATEK Access Technologies

The TankScan TSU Monitor is a wireless all-in-one cellular-enabled device that is placed on top of the tank or container to provide level measurements. The monitor collects data regarding the fluid level in the airline's de-icing tanks and sends it to the ATEK Intelligence Platform (AIP) web-based monitoring application.

AviationPros.com/12436633



PORTABLE VISCOMETER

It is easy to measure the viscosity of deicing fluid with the Viscolite portable viscometer from Hydramotion Ltd. – simply dip the probe into fluid and see the viscosity reading instantly. Wipe the sensor clean and it is ready for re-use. The viscometer is factory-calibrated and does not need recalibration.

AviationPros.com/11654481

EVERYTHING YOU NEED TO KEEP MOVING.



GROUND SUPPORT EQUIPMENT

Luggage | Water | Refuse | Lavatory | Fueling | Cargo



Learn more by visiting our website par-kan.com or calling us at **800-291-5487**





MODEL STD-FC 550 FUEL CART

Aeroservicios USA Inc.

The Model STD-FC 550 has a capacity of 550 gallons; gas or diesel; 15 GPM solar-powered pump; heavy duty solid steel tank with powder-coat finish; double wall skid tank; low profile and hot dip galvanized chassis; fifth wheel steering; safe drop tow-bar; level and leak gauge; static grounding reel; fire extinguisher- 10 lbs. fuel hose with safety fuel nozzle and holder; spill container and fill cap; two emergency vents; TIMBREN suspension with rubber spring technology; and anti-overturning axles.

AviationPros.com/21110551

AVIATION TURBINE AND JET FUELS MICROBIOCIDES

Hammonds Companies

Biobor JF is a leading aviation fuel microbiocide for the eradication and prevention of microbial growth in aviation fuel systems. Biobor JF is approved for aviation use, recommended by turbine and airframe OEMs and effectively kills bacteria and fungi colonies in aircraft and fuel storage systems that cause filter blockages, corrosion issues and operational interruptions.

AviationPros.com/12413419



AIRCRAFT REFUELERS ProFlo Industries LLC

ProFlo Industries manufactures and refurbishes a complete line of aircraft refuelers ranging from 500 gallons (1,800 liters) to 10,000 gallons (40,000 liters) in capacity for fueling a wide range of aircraft from helicopters to wide-body jets.

AviationPros.com/12302921



LCR.iQ Liquid Controls LLC

The LCR.iQ is Liquid Controls' newest fueling register that is a product of over two years of customer development collaboration. Easy to operate, intuitive and fully configurable to automate even the most complex fueling operations, the LCR.iQ was built with the future in mind to accommodate highly sophisticated wireless automation and data transfer systems and is compatible with critical system sensing devices.

AviationPros.com/12434355



FUEL SERVICE CART Par-Kan Company

The Par-Kan FSC-300 X2 GSE Fuel Service Cart offers 600 gallons of total capacity, 300 gasoline and 300 diesel. With two hand pumps with meters, two fuel filters, static grounding reel and fire extinguisher, the equipment is mounted on a four-wheel product containment trailer.

AviationPros.com/12274802



M4000 NEXT-GEN SELF-SERVE FUELING TERMINAL QTpod

The M4000 Next-Gen Self-Serve Fueling Terminal offers many new features and enhancements previously not available on any aviation self-serve fueling terminal. Multiple options for payment processing communications, including cellular, WiFi and Ethernet, web-based software management application, a new and substantially improved user interface and the ability to control up to eight pumps are just a few of the new features on the M4000.

AviationPros.com/12434602

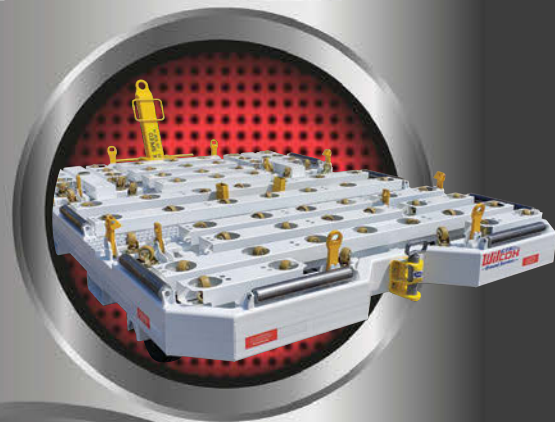


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HYDRANT CARTS Westmor Industries, LLC

Westmor Industries has one of the most customizable lines of aviation products available. Customers can choose options as well as the configuration. The company's Hydrant Carts are towable up to 25 mph and fuel up to 450 GPM. The units utilize a solar-powered electrical system with battery storage and electric registration system.

AviationPros.com/12377780



TRANSCUBE Western Global

Western Global's TransCube is a transportable, double-walled fuel tank designed specifically for auxiliary fuel supply and efficient on-site refueling. The cube-shaped tanks meet global transportation standards to provide safe fuel transport. The TransCube is designed to improve jobsite efficiency, safety and profits. It is available in capacities ranging from 132 U.S. gallons (500 liters) to 1,242 U.S. gallons (4,701 liters). Western Global also offers advanced fuel monitoring systems to help businesses remotely track fuel supplies.

AviationPros.com/21110636



5K AIRCRAFT REFUELER BETA Fueling Systems, LLC

The 5K Refueler features BETA's engineered frame made with aluminum for lighter weight while tanks come in aluminum, stainless steel or a combination of the two. The side modules are designed to provide protection from impact using a narrower chassis and flexible joints to protect the pipework and valves. Individual control and filter modules mount directly onto the chassis rather than a sub frame. It also features an underwing hose reel with electric rewind; a single foot valve for simplicity and ease of maintenance; and more durable stainless steel pipework.

AviationPros.com/12431533



MODEL 114-1E REFUELING CONTROL VALVE OCV Fluid Solutions

The OCV Model 114-1E is specifically designed for aircraft refueling service. Known as either a refueling or a hydrant control valve, it opens and closes electrically via a solenoid pilot. It also modulates to control downstream pressure at a predetermined set point while opening and closing rapidly to prevent undue pressure buildup due to a rapid reduction in demand.

AviationPros.com/12377037

TCS 3000 Total Control Systems

The TCS 3000 is now available with 7" VGA display, additive injection controller and built-in WiFi, bluetooth or cellular communication. In addition, it's fully integrated with density, differential pressure, water-in-fuel and level sensors for complete automation and control for safe refueling. Utilize the TCS HUB software to view, track and analyze delivery volume and other measurables to keep refuelers operational.

AviationPros.com/21110559



15,000 GALLON JET REFUELER SkyMark Refuelers

The SkyMark 15,000 Gallon / 57 KL Jet Refueler is based on the company's 10,000 Gallon Jet Refueler, which is in operation around the world. It includes all of the groundbreaking SkyMark innovations found in the company's full line of equipment.



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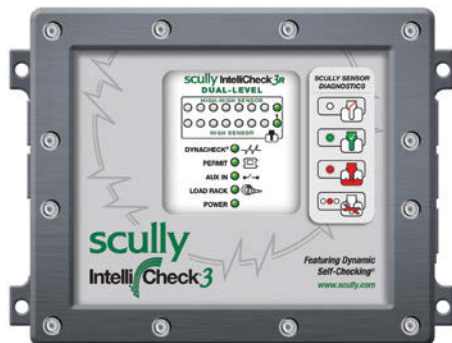
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INTELLICHECK 3 DUAL-LEVEL MONITOR SYSTEM

Scully Signal Company

The new Scully IntelliCheck 3 Dual-Level Monitor System meets the recently revised National Fire Protection Agency (NFPA 407) and Joint Inspection Group (JIG2) standards. It monitors two independent optical overfill sensors, High and High-High Level and features Scully's patented DynaCheck circuitry, providing continuous self-checking failsafe technology. The original Scully system was designed for the US Air Force in 2003, and has been eliminating overfills for military users for more than 15 years.

AviationPros.com/12434679

AVIATION REFUELING PUMP

The Gorman-Rupp Company

Gorman-Rupp's complete line of ground service pumps and related equipment have met the challenge of accelerated aircraft refueling and defueling requirements for more than 50 years.

AviationPros.com/12434618



AVIATION FUELING SYSTEMS American Environmental Aviation

American Environmental Aviation is an aviation fueling system manufacturer that can handle complete turn-key projects as well as provide equipment only for the storage and pumping of aviation fuel.

AviationPros.com/21110583



PROTECTIVE WING MAT FOR AIRCRAFT FUELING AND ENGINE ACCESS

Fjord Aviation Products, LLC

Fjord Aviation Products' Wing Mats are made of high impact absorbing non-abrasive urethane polymer, are chemical and fuel resistant and flame retardant with operating temperatures from -20° to 200°F. Sizes include 18" x 24" and 18" x 36". The bottom side is somewhat sticky to reduce sliding or blowing off the wing, the top side is textured and dull for protecting the nozzle and hose from sliding. Seven colors are available.

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HI-FLASH HI-FLO ANTI-ICING FUEL ADDITIVE

Prist Aerospace Products, Div. of Univar Solutions

Prist anti-icing fuel additive was developed to meet the high demands of the aviation industry. The formation of ice crystals in fuel tanks can block the aircraft fuel line or filter, causing engine failure. Prist Hi-Flash Hi-Flo anti-icing fuel additive controls icing in aircraft fuel by depressing the freezing point of water. This next-generation additive is less toxic, less volatile and much easier to use compared to conventional additives. Prist has been approved by the United States Armed Forces as well as ASTM.

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EMR4 Veeder-Root Commercial-Industrial Products Group

The EMR4 is the latest in electronic meter registration. The EMR4 is the only globally certified electronic register for any type of custody transfer application.

AviationPros.com/12434626





FUEL TRAILER Jet Fleet Management LLC

This trailer is capable of delivering fuel via a 100-foot, 1-inch hose at 15 GPM. A higher volume of fuel is available. The trailer can be towed by any vehicle with a towing capacity of at least 2,500 lbs. Trailers are street legal in most states following contractor size fuel tank regulations.

AviationPros.com/21110591

DPGUARD FAUDI Aviation GmbH

The FAUDI Aviation DPGUARD is a fully automated touchscreen operated calculator to give out the corrected differential pressure across the filter elements (monitor filters or coalescers) in mobile or fixed filter vessels being operated at less than maximum rated flow.

AviationPros.com/12440622



AVIATION PUMP CART SEI Industries LTD

Designed for mobility around unimproved runways at remote airport locations, the Aviation Pump Cart allows one person to easily move the pump and its hoses over rough terrain to refill an aircraft quickly from a portable fuel tank. Engineered to fit through a narrow aircraft door opening, the cart can be transported by fixed-wing aircraft as well as laid down and secured to the floor of the aircraft, ensuring that the pump engine will not leak fuel. The cart incorporates a robust hose hanger that can hold 50 feet (15 m) of discharge hose plus a nozzle and 12 feet (3.6 m) of suction hose.

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AVIATION FUELING HOSE PEAR Corporation

PEAR Hose utilizes Contitech AEROPAL aviation fueling hose in all its aviation hose assemblies. AEROPAL hose is fast becoming the choice hose in America as it is capable of outperforming other hoses in the market. Also, every PEAR hose assembly comes with an exclusive five year warranty.

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AVIATION FUELING DISPENSERS AND EQUIPMENT

Sparling Corporation

Sparling Corporation provides engineered diagrams and design, product fabrication, onsite installation, system testing and training, complete turn-key systems and more. The company can provide drawings for foundations and electrical service and SPCC Plans. Its staff of qualified technicians can perform both in-shop and on-site repairs, upgrades and inspections.

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ZVF 50 OVERWING NOZZLE ELAFLEX - Gummi Ehlers GmbH

Elaflex's product range includes overwing nozzles for aircraft and helicopter refuelling - with AVGAS or JET-A1 spouts and suited accessories. It meets the JIG guidelines, is lightweight, has good handling properties and boasts an extremely low hold-open force and sensitive flow control.

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PCA HOSE REEL WITH CART

Reelcraft Industries Inc.

Reelcraft's PCA reels are designed to improve ground support operation efficiency and safety with ergonomic plane side handling of cumbersome PCA ducting. The reel will accommodate up to 100' of 14" I.D. ducting that supplies continuous clean hot and cold preconditioned air to stationed aircraft. Lightweight, rugged aluminum construction including baked-on safety yellow powder-coat, combine to provide superior corrosion resistance in all weather conditions.

AviationPros.com/21110600



GSE DIESEL ENGINES

Deutz Corporation

Deutz manufactures diesel engines used in GSE. The air, oil and water-cooled diesel cover an output range from 6 to 600 horsepower. A quality network of certified distributors and dealers with more than 600 locations in the US services Deutz customers.

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ADVANCED TECHNOLOGY ENGINES

Engine Distributors Inc.

Engine Distributors Inc. offers a line of LSI industrialized Ford engines, which are available and serviced through a global dealer network. The line of EPA- and CARB-certified 1.6-, 2.5-, 3.7- and 6.8-liter engines range from 20 to 200 horsepower. They are available in gasoline, LPG, CNG, natural gas and dual fuel. The company offers a five-year, 5,000-hour warranty for the GSE market.

AviationPros.com/12275602



BOOM AIR HOSE MANAGEMENT SYSTEM

Twist Aero

The Boom Air Hose Management System is an automated hose delivery system, which connects into the pre-conditioned air unit and delivers heated or cooled air to the plane. The unit enables the operator to only deliver the amount of hose needed to the aircraft via a handheld remote. This reduces kinks and other hose related issues, resulting in optimum airflow to the aircraft. To date, there are more than 400 systems installed in the US, Canada and Europe.

AviationPros.com/21110598



400HZ ALTERNATORS

WEG Electric Corp.

WEG's unique vertically integrated production and high-quality designs combined with well-proven manufacturing processes result in a modern world class alternator product range for GPU 400hz applications. Available from 30 to 320kVA, 1,846 to 2,400 RPM, WEG alternators are designed to provide the highest performance with a compact and robust mechanical design. WEG 400hz alternators provide reliable power for demanding applications.

AviationPros.com/21112599



ECONOSE-M

Anderson Airmotive Products Co.

By replacing the severe wear area in a ground power plug with a super tough high density (HD) polymer, the life of the cable assembly is significantly increased. The EcoNose-M reduces wear on the plug nose and contacts and protects plug contacts from deformation. The HD polynose can be changed in 60 seconds on the ramp for quick return to service. It is compatible with all aircraft. The super tough nose plate is recyclable, thus minimizing the effect on the environment. It is available for over molded connectors and cable assemblies.

AviationPros.com/12014467



HIGH PERFORMANCE SINGLE JACKET 400 HZ CABLE ASSEMBLIES

PAGE GSE

PAGE's 400 Hz single jacket high performance six around one cable assemblies with the replaceable HARDHEAD provide the finest features in the industry today. The robust design ensures long life on the ramp and the built-in safety features provide an extra level of protection to operators and the aircraft.

AviationPros.com/12399306



E-28 28.5 VDC GENERATOR

Servicore G.S. Corp.

The e-28 is a 28.5 VDC generator with 2,000 AMP cranking capacity and 600 AMP continuous delivery; powered with a Perkins engine. It is fifth-wheel trailer mounted, has paint over galvanize body panels and is easy to use and maintain. The unit includes a 30-foot output cable with aircraft connector.

AviationPros.com/12375009

JETGO 300 28.5V GROUND POWER UNIT

AERO Specialties

The JetGo 300 diesel-hybrid GPU provide continuous power for avionics and to start the engines on all DC turbine and turboprop aircraft. JetGo 300 users benefit from a compact unit, user friendly controls, very low operating costs and a low dBA signature. These units also have the ability to act as a electrically powered rectifier for use inside the hangar.

AviationPros.com/21077426



SOLIDGOLD AND SOLIDGOLD+ TIRES

Sage Parts

Sage Parts Solidgold and Solidgold+ tires are made to the most stringent specifications. Solidgold is a premium two-stage solid tire and wheel assembly and the Solidgold+ is a three-stage premium solid tire and wheel assembly. Both are engineered for ground support applications that require a tire and wheel assembly to provide a long service life, minimal rolling resistance and are soft enough to decrease cart and dolly wear.

AviationPros.com/21088770



BOSCH FUEL SYSTEM AND SENSORS

MemoParts

Memo now offers a full line of Bosch fuel injectors, nozzles, injection pumps, high-pressure pumps, common rails for Deutz and FPT / CNH applications, as well as a wide range of Bosch sensors. Memo customers receive OEM-level Bosch parts at an aftermarket price.

AviationPros.com/21110608



7400 GPU

ITW GSE

The ITW GSE 7400 eGPU assists the ongoing quest for lowering the environmental impact of airports. It is ideal for gates and hangars with no fixed 400 Hz installations. Zero emissions of CO2 and NOX at the place of use and noise reduction is the key for achieving greener airports and better working environments. The battery-powered GPU offers proven technologies in the combination of a solid-state converter and Nissan Leaf battery packs.

AviationPros.com/12375760



JETLINKSYS **Unitron Power** **Systems**

Unitron Power Systems offers the JetLinkSys, a self-contained cable management system with a 400Hz, 28VDC, 270VDC or combination solid state frequency converter. The system is available in an overhead or fixed configuration.

AviationPros.com/12375050



WG2503

Kubota Engine America Corp

Kubota's WG2503 is a naturally aspirated engine with gasoline output of 45.5 kW and LPG output of 46 kW, both running at 2,700 rpm. It is based on an industrial engine platform with the same footprint as the Kubota V2403 diesel engine. Kubota is the Manufacturer of Record (MOR). The engine offers very low vibration and is exceptionally quiet.

AviationPros.com/21110604

JETMAX1200

Aeromax GSE Inc.

The JETMAX1200 is a 1,200-amp continuous DC ground power unit with optional dual-DC output and power-guard protection technologies.

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SUNKING LCD SCUFFER

Salem-Republic Rubber Company

Salem-Republic Rubber offers the SunKing LCD Scuffer for jet starter hose applications. It provides greater UV and ozone resistance, reduced snag hazards and improved end-to-end strength, while still incorporating the patented Low Coefficient of Drag (LCD) spiral bumper.

AviationPros.com/21112087



HYDRAULIC GROUND POWER UNITS

TEST-FUCHS

TEST-FUCHS offers Hydraulic Ground Power Units (HGPUs) in various sizes for maintenance or testing of hydraulic systems (ATA Chapter 29). Designed for all aircraft types with 3,000 psi or 5,000 psi hydraulic systems, flow rate of up to 60 US GPM, and available for single or dual independent systems. Choose from a wide range of options, accessories and OEM-certified quick disconnect couplings. This item is certified for all Airbus A/C and recommended for the use on Boeing A/C.

AviationPros.com/12413822

START PAC GREEN

Start Pac

The Start Pac Green is a unique modular battery-powered ground power unit to replace diesel- and gas-powered units. Features include a larger battery bank for powering up the aircraft systems for extended periods of time; a smaller battery bank for engine starting; the starting battery bank can be removed from the ground power unit when a portable unit is required; and built-in battery chargers to replenish both battery banks.

AviationPros.com/21112662



3-CYLINDER 3H50 ENGINE

Hatz Diesel of North America

The Hatz 3-Cylinder 3H50 Engine is an ideal solution for tight spaces through an innovative downsizing approach. Hatz made its 3-cylinder 3H50 engines the lightest and most compact in its class. With a maximum output of 56 HP, these liquid-cooled engines have an excellent power-to-weight ratio. They also meet every US and overseas emission regulation, including EU Stage V, without losing power.

AviationPros.com/12434694



S POWER M-B-DC

Hitinger GmbH

The mobile version of the Hitinger S POWER provides high voltage quality and a high level of supply security. The S POWER M is available either for indoor use (S POWER M-S) or outdoor use (S POWER M-B). The latest 28 VDC technology can be added to all available S POWER units. Due to the latest inverter technology, the unit fulfils all technical requirements and overloads and is still very lightweight and compact.

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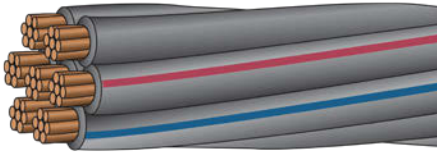


100 SERIES DIFFERENTIAL AXLES

Peerless Gear

Peerless differential axles provide performance, durability and ease of operation for all rider and other drive needs. Available with either 3/4" or 1" diameter axle shafts, Peerless differential axles are ultra-quiet and provide users excellent performance when used with a Peerless 700 Series Transmission.

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400 HZ CABLE Service Wire Co.

Service Wire Company's 400 Hz cable is designed to power modern airports and hangars. The unique cable is an assembly of multiple soft drawn copper conductors, stranded and insulated with cross-linked polyethylene, twisted in a six-around-one construction and phase identified per customer specifications. Used as a power source for aircraft ground power supplies, 400 Hz cable is available in #4 AWG through 500 Kcmil, 600V/1kV XHHW-2 and 1kV USE-2/RHW-2.

AviationPros.com/21107254

COOLJET HOSE RETRIEVER B GSE Group, LLC.

The CoolJet Hose Retriever prevents PCA hose damage. It features a drive head for extraction and retraction of the pipe with four gear-motors/belt-drawers controlled by an inverter - without mechanical transmission elements such as chains, gears or rotating shafts. The external anodized aluminum tube contains the air deliver pipe. With a compact design, mounted immediately adjacent to aircraft connections, it provides a long-operating life for the air delivery hose.

AviationPros.com/21088001



PCAT LOAD BANK Hall Technical Services

The Hall PCAT Load Bank is a pre-conditioned air tester designed to be utilized as a maintenance analyzer.

AviationPros.com/21112459



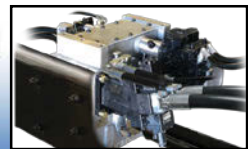
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STEERABLE UNDERCARRIAGES

Hadco Engineering, Inc.

Hadco is a manufacturer of steerable undercarriages for the aerospace, military and commercial markets ranging from 500 lbs. per axle to 30,000 lbs. per axle.

AviationPros.com/21110546



PCA HOSES

AmCraft Manufacturing Inc.

AmCraft Manufacturing fabricates pre-conditioned air (PCA) hoses. Two main categories of hoses are offered – wire supported hoses and lay flat hoses. Both are intended to assist with the movement of conditioned air, either cool or warm. AmCraft manufactures a complete line of standard size hoses, hose sections and hose accessories.

Aviationpros.com/21110611



ZEPHIR PCAs

ADELTE

ZEPHIR PCAs are designed and engineered to deliver optimum airflow to each aircraft, with an increased efficiency of up to 35 percent using two inverter compressors with four phases and a high-quality direct drive centrifugal blower (VFD) consuming minimum energy. They fit any platform layout and can be installed on any passenger boarding bridge (PBB).

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Ramp Up.

IAEMA membership can bring higher profits to your business.



The International Airport Equipment Manufacturers' Association (IAEMA) promotes and supports the business interests of the global GSE community.

Our members include many of the world's leading GSE companies, working together and sharing ideas to enhance the growth of ground support equipment businesses industry-wide.

Through comprehensive education, informative events and a strong, authoritative voice we work tirelessly to help our members increase their profits. And we can do the same for you.

Join IAEMA today!

For further information and to become a member, call us at 518.694.5532, email us at info@iaema.org, or visit IAEMA.org.

IAEMA
International Airport Equipment
Manufacturers' Association

A strong voice for the GSE community

AviationPros.com/21096934



▶ ACT QUANTUM GSE CHARGER

Advanced Charging Technologies (ACT)

The ACT Quantum GSE Charger is an industrial battery charger with a UL certified, Type 3R outdoor rated design optimized for airport operations and ground support equipment. It's designed with WiFi connectivity for remote monitoring, control and seamless integration with ACT's cloud-based data management platform, ACTintelligent. It features conventional, opportunity and fast charge capabilities all integrated into a single, modular design. The charger also supports openCAN communication protocol enabling support for Lithium-Ion battery charging applications.

AviationPros.com/21112429

▶ BISON E Goldhofer Aktiengesellschaft

The BISON line of pushback tractors offers maximum utility in daily ground handling operations. Users can choose between different sizes, drive trains, motor power and cabs for specific requirements. Identical parts save storage and costs, and flexible ballasting allows individual configuration, according to the respective application. The electric BISON E is available in two model sizes, the BISON E 370 and BISON E 620.

AviationPros.com/21112385



▶ EMOVER HYDRO Systems KG

HYDRO Systems offers an emissions-free electrically powered pushback. The emover is able to push and pull several types of aircraft ranging from from the E170 to the A380.

AviationPros.com/21110416



Electric GSE Solutions for Aviation

▶ CHARGER AND BATTERY POWER SOLUTIONS FOR ELECTRIC GSE

Averest, Inc

Averest, Inc. offers technically sound charger and battery power solutions for electric GSE, which includes Dekka Lead Acid Batteries, Flux Power Lithium Batteries and PosiCharge Outdoor Fast Chargers. In addition, Averest provides custom cable management solutions along with replacement parts and service.

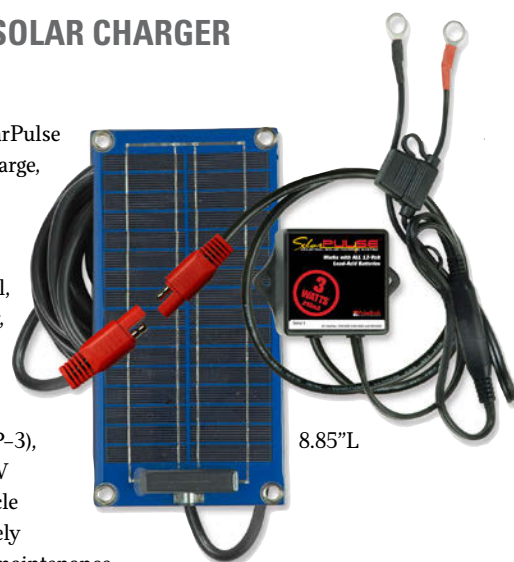
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▶ SOLARPULSE 12V BATTERY SOLAR CHARGER MAINTAINERS

PulseTech Products Corp

PulseTech Products' 3-, 7- and 12-Watt SolarPulse Solar Chargers offer increased wattage to charge, maintain and desulfate lead-acid batteries in vehicles and equipment stored outside. SolarPulse works with all types of 12-Volt batteries, including conventional flooded, gel, AGM and VRLA. It is protected with a clear, polyurethane plastic coating mounted on a laminated aluminum. Weatherproof and with multiple mounting options, the panel dimensions are 4.7"L x 9.45"W x 0.25"H (SP-3), x 10.25"W x 0.25"H (SP-7), 12.41"L x 9.85"W x 0.25"H (SP-12). When mounted on a vehicle or equipment, SolarPulse chargers are entirely automatic battery conditioning and charge/maintenance systems. All SolarPulse Chargers come with a five-year limited warranty.

AviationPros.com/21076418



8.85"L



COLIBRI POWER TRACTION 2.0 LITHIUM BATTERY

Allen Energy

Utilizing NMC lithium chemistry, the Power Traction 2.0 battery from Colibri offers long life and reliability for GSE. It's been proven in extreme conditions in the Middle East, Asia, Europe and North America.

AviationPros.com/21110615



ELECTRIC BELT LOADER Avro GSE

Avro electric belt loaders offer leading edge performance, design and functionality. Each loader features standard functionality such as hydraulic steering, Curtis controller with self-diagnosis functionality, vacuum assist hydraulic brakes, complete telematics for remote diagnostics and monitoring, along with the Avro Care managed maintenance program.

AviationPros.com/12425910



POSICHARGE PosiCharge

PosiCharge is a provider of electric ground support equipment chargers, powering 13 of the world's largest airports, six of the largest airlines and US Air Force bases around the world. The PosiCharge SVS, DVS and MVS product lines help keep operations running efficiently.

AviationPros.com/12377444

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GSE**

ZERO EMISSIONS AND REDUCED NOISE

The ITW GSE 7400 eGPU offers flexibility, zero emissions, silent operation and reliable power. It simply changes how airports think about ground power.

itwgse.com/7400



**SIMPLY SMARTER
GROUND SUPPORT**



**GO GREEN
ON GROUND**

It's all about connections

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► COOLSPool HYBRID 300 Powervamp Ltd.

The Coolspool Hybrid 300 is a truly 'green' Tier IV compliant diesel GPU capable of providing continuous power for avionics and turbine starting. Customers benefit from low operating costs, low CO2 emissions and low dBA signature. Capable of starting large turbines with its 'Power Boost System,' the Coolspool Hybrid 300 can also operate in the hangar when the engine is switched off, and connected to three-phase AC power.



AviationPros.com/12428618

► VALENCE LITHIUM ION BATTERIES Lithium Werks, Inc.

Valence brand batteries are ideal for electric drive and energy storage applications because of their long run-times and cycle life, all with zero maintenance. The batteries offer end-users an alternative to lead acid as the ground support industry integrates electric equipment (eGSE) into airport operations. Packs can be made of multiple battery modules placed in series and parallel to create the right voltage and capacity.



AviationPros.com/12434645

► ALTUS II Minit Charger

Altus II is a new dual-port fast charger, built on state-of-the-art silicon carbide technology that provides the ground support and aviation industries a solution to charge multiple electric GSE simultaneously, with a faster charge, in a smaller footprint, while also wirelessly sharing crucial charging data to Minit Charger's cloud-based business intelligence platform, AssetPro 360.



AviationPros.com/21110579

► ONECHARGE LI-ION BATTERIES OneCharge Inc.

OneCharge Li-ion Batteries for GSE are guaranteed to work in hot, cold and other harsh outdoor environment. They come WiFi connected for remote trouble-shooting capability and superb data analytics.



AviationPros.com/21110468

XcēD ^{your} ONE STOP



for GSE

- **Leasing**
- **Rentals**
- **Refurbished GSE**

XcēD's dedication to customer service is unequalled in the industry. That's because our experienced professionals thoroughly understand airport ground operations and ground support equipment.

XcēD operates in over 100 airports in North America, and we partner with all of the major ground support equipment manufacturers to provide an extensive inventory of new and used equipment.

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new website at:
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XCED

425 North Martingale Road, 8th floor
Schaumburg, Illinois 60173
844.213.9233

GROUND SUPPORT EQUIPMENT INT'L INC.

GSE SERVICES

GSE Intl Inc.

GSE Intl Inc. buys, sells and refurbishes U.S. made ground support equipment. Specializing in RJ operators' support equipment, the company provides towbarless tractors, power carts, air starts, GPUs, pushbacks, belt loaders, stair trucks, towbars, hydraulic mules, catering trucks, maintenance stands, aircraft jacks and deicers.

AviationPros.com/21112408

TRANSPORTATION AND SHIPPING SERVICES

Air Ocean Pros

Air Ocean Pros is a full service transportation provider dedicated to the ground support equipment industry. It is experienced in moving equipment for the airlines from airport to airport anywhere in the world.



AviationPros.com/12376784

RAMP HANDLING

Menzies Aviation

Menzies Aviation sets a high standard in delivery of complex ramp services, conveying passengers, luggage and cargo to and from aircraft with clockwork precision, while simultaneously tending to a range of technical needs. The company also provides fueling and cargo services.



AviationPros.com/12378062



A Sasser Family Holdings Company

XCED AVIATION SERVICES

Xced Aviation Services - Sasser Family Holdings Company

Sasser Family Holdings, Inc. includes an aviation ground support equipment (GSE) finance and asset management subsidiary; Xced Aviation Services, LLC. Xced provides single investor equipment financing solutions and life cycle management of all aviation ground support equipment for North America. Xced delivers end-to-end aviation ground support equipment financing and asset management solutions geared to exceed expectations.

AviationPros.com/12014721

NEW, USED AND ZERO-TIMED GSE

Mercury GSE

Mercury GSE supplies new, used and zero-timed GSE available for purchase, rental or long-term lease. Mercury GSE's 30 years of ground handling and GSE experience provides customers with the facts needed to make correct decisions. They carry a varied selection of used GSE in stock at all times.



AviationPros.com/10817962

AVIATION SERVICES

PrimeFlight Aviation Services

PrimeFlight Aviation Services include ramp services, cabin cleaning, baggage handling, skycaps and ticket verification. PrimeFlight is a customer service focused provider.

AviationPros.com/10026624



GROUND HANDLING SERVICES

GAT Airline Ground Support

GAT Airline Ground Support offers a broad portfolio of services at locations throughout the United States. The company provides high quality, regulatory compliant services to its aviation customers while ensuring a safe and productive environment for employees and customers. GAT also maintains a dedicated training and compliance department to ensure full compliance with its customer's policies and procedures, as well as any participating governmental agencies.



AviationPros.com/12378060



LEASING AND FINANCING SERVICES Fortbrand Services

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

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GROUND HANDLING SERVICES

Airport Terminal Services Inc.

Servicing more than 150 customers in over 40 airports with 350,000 departures annually, ATS has an established reputation as a ground handling service provider. Providing services such as ramp handling, customer service, cargo, cabin cleaning, aircraft fueling, deicing, meet-and-assist services, passenger lounge operations and more, ATS represents the major global brands in air travel and fully understands the intricacies of the complete airline operation.

AviationPros.com/12434683



LOGISTICS SERVICES

EMR Logistics, Inc.

The staff at EMR Logistics can guide its clients through their transportation needs. The company uses a simple model of safety, honesty and competitive pricing to provide trusted carrier service.

AviationPros.com/12274739



GSE SALES, RENTALS AND LEASING

Davin Inc.

Davin Inc. maintains a substantial inventory of late model GSE for immediate response to short-term rental requirements and offers longer term leasing and sales of both new and used equipment.

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Model HTSBSUV
With Scissor Lift



Charger Electric Baggage-Cargo Tractor
Model HLE
Available with lead-acid or lithium battery



TransCon Baggage-Cargo Tractor
Model HTSB30-60
Also available with lithium battery



Classic Baggage-Cargo Tractor
Model HT30-60



TransCon APV Airport Maintenance Vehicle
Model HTSBAPV



As a manufacturer of our own parts and components, we have the ability to customize parts as well as support parts beyond standard expected part life in the industry.

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PDC STANDPLAN

PDC Aviation

PDC StandPlan is a decision support system used for planning the assignment of stands and gates in an airport. A wealth of facilities will lead users through all planning stages of gate/stand planning – from long-term specification of apron characteristics and requirements to last minute revisions on the day-of-operation. Once defined, gate and stand utilization is optimized while also providing an overview that enables increased capacity.

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GROUND HANDLING SERVICES

Swissport International Ltd.

Swissport International Ltd. provides ground services for around 224 million passengers and 4.1 million tons of cargo a year on behalf of some 700 client-companies in the aviation sector. With its workforce of around 55,000 personnel, Swissport is active at 266 airports in 45 countries on five continents.

AviationPros.com/10025374



GROUND SUPPORT EQUIPMENT



Omega Aviation Inc.

With almost 30 years of selling and leasing GSE, both domestically and internationally, Omega's goal has always been to provide aircraft ground support operators with reliable second-hand GSE at an incredible value alongside with customer service for the long haul.

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- 15 SCFM discharge rate
- Quiet, only 60 dba
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- 2-Stage and double acting configurations



5G SERIES Air Driven

- 5000-PSIG rated
- 36 SCFM discharge rate
- Portable
- Single acting, double acting and 2-stage configurations



HIHPG1 SERIES Air Driven

- Two (2) bottle hand truck
- Fits bottles 9.3" in diameter and 51" in height
- Accommodates single / double acting and 2-stage configurations
- Automatic shutoff safety valves



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GSE MAINTENANCE

Global Aviation Services LLC

Global Aviation Services is the largest GSE maintenance-only service provider in North America. The company's 320 technicians at more than 80 airports have the sense of urgency required to serve aviation industry maintenance needs.

AviationPros.com/12376866



ESSINTAWINGS Essinta Labs, Inc.

EssintaWINGS is an easy to use, web-based application for FBOs and aviation businesses. The company's team of aviation veterans has created an easy-to-use interface that is based on real workflows and processes from FBOs. Easy invoice and payment acceptance, proper tax application, fuel and inventory management and reliable transfer of information to a back office allows users and their customer service teams to focus on running their businesses and providing excellent service.

AviationPros.com/12434701

GSE FINANCING

TCF Equipment Finance

TCF Equipment Finance (TCFEF), a division of TCF National Bank, was established in 1999 and provides a full array of finance products nationwide to numerous industry segments, including airport ground support. TCFEF offers financing solutions to companies through programs with vendors and manufacturers as well as to customers direct.

AviationPros.com/12378058



SECOND HAND GROUND SUPPORT EQUIPMENT

TCR International

TCR is a one-stop-shop supplier for GSE. The company offers operating leases, including fleet management, repair and maintenance; supply of after-rental GSE (second hand). The company also offers refurbishment and spare parts.

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The GSE Solution.



We are every part of your entire ground fleet.

Sage Parts is the leading global provider of replacement parts and services.

Sage Parts provides specially engineered and high quality parts, for the best performance, at the lowest prices. Sage Parts is the only parts supplier that can offer you unlimited access to the world's largest on-hand inventory of GSE parts, an international distribution network, engineered solutions, and unmatched industry expertise.

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TRANSPORTATION SERVICES

Satellite Specialized Transportation

Satellite Specialized Transportation Inc. has a reputation and extensive resources to provide customers with excellent service. Satellite works diligently to provide its staff with every tool needed to stay educated and competitive in the transportation industry. With an experienced staff at two locations, Satellite Specialized Transportation Inc. is prepared for its customer's transportation needs.

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OCTOBER 20–22, 2020
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LAS VEGAS, NEVADA, USA

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International GSE Expo is a world-class platform showcasing the latest products, services, equipment and technologies for the global ground support industry. Featuring more than 250 exhibitors and 2,500+ attendees from around the world, GSE Expo is a must-attend event for learning what's new and what's next for the future.

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- ▶ 2,400 industry professionals
- ▶ 250+ exhibiting companies
- ▶ Networking opportunities with leading companies in the industry
- ▶ First-hand look at the latest advancements in technology, products and equipment

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Support
WORLDWIDE

IAEMA
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A strong voice for the GSE community

LAVATORY SERVICE TRUCK Phoenix Metal Products

Phoenix lavatory service trucks have stainless steel tanks and module. Standard module is a brushed finished stainless steel that requires no painting. This will reduce years of repainting cost and presents a sanitary appearance. Features include waste hose storage tray and a waste inlet swivel.

AviationPros.com/10027042



CRUSH PROOF LAVATORY DUMP HOSE US Airmotive GSE

The Crush Proof Lavatory Dump Hose from U.S. Airmotive GSE offers a 100 percent urethane hose wall with urethane tubular helix to protect the hose (no wire). Additional features include one continuous piece of urethane hose and cuff; triple urethane on cuffs for added wear; UV resistance; bending radius of 4"; and temperature resistance of -40F to +195F. Standard lengths are 8', 10', 12', 15' and 20' while other diameters and lengths are available on special request.

AviationPros.com/12394691



POTABLE BOTTLED WATER CART Alberth Aviation

Alberth Aviation manufactures a Potable Bottled Water Cart designed to deliver guaranteed clean water to the aircraft every time. Four standard 5 gallon water bottles make this cart easy to maintain and provide a simple way to track water sales. It's used by FBOs and flight departments worldwide.

AviationPros.com/12113126



ELT LAVATORY SERVICE VEHICLE Eagle Tugs, a Tronair Company

Eagle's eLT Lavatory Service Vehicle is powered by an environmentally-friendly 80V A/C electric drive. The eLT allows users to service the lavatory for regional aircraft from the ground. With an overall capacity of 300 gallons and front or rear dump operations, the eLT can accommodate a variety of operations. The eLT combines a low-profile design with an ergonomic front operator compartment to make aircraft service easy and efficient.

AviationPros.com/12440030



RAMPTECH COMPOSITE LAVATORY DRAIN COUPLINGS

Sage Parts

RAMPTECH Lavatory Wye Drain Couplings are engineered for ease of use and highly reliable performance, without spillage or leakage. Made of impact-resistant and non-porous composite, these couplings make it fast and simple to remove the lavatory drain plug or "donut" from the aircraft lavatory drain nipple - allowing waste to drain at full flow into the lavatory service truck while eliminating ramp spills to ensure rapid waste removal. They are designed for a leak-proof connection on all standard 4" drain nipples.

AviationPros.com/12394686

SAFE-LAV AERO Specialties

Countless dollars and flight hours are lost each year due to damage caused by overfilling the aircraft lavatory system. The AERO Specialties Safe-Lav carts batching system determines and restricts the maximum quantity of fluid that can be delivered to the airframe. This product can be installed on new lavatory service carts or as a retro-fit kit to units in the field.

AviationPros.com/12356980



AEROS PC 155 POTABLE WATER CART Aeroservicios USA Inc.

Aeros PC 155 Potable Water Cart features a 155 gallon poly water tank with a Briggs & Stratton 550 engine Pacer Pump.

AviationPros.com/21068176



E-ZVTS VACUUM TOILET SERVICE UNIT Vestergaard Company Inc.

Vestergaard Company's E-ZVTS is a gasoline-electrically driven vacuum toilet service unit containing all the valued features of the ZVTS, such as the vacuum system, fast and high performing operations and with a very high level of safety for both aircraft and ground crew. The E-ZVTS creates less airborne particles in the congested gate environment and no exhaust filter regeneration. The gasoline-powered chassis drives a generator, which in turn drives all functions on the E-ZVTS. As there are no hydraulic pump, pressure or hoses, the unit has minimal maintenance. Designed for warmer climates, the E-ZVTS can be fitted on different standard truck chassis to fit various operations.

AviationPros.com/12378371



IPW POTABLE WATER PUMP Pacer Pumps

Pacer Pumps/Div. ASM Industries has earned certification to NSF/ANSI 61, 372, the American National Standard for Drinking Water System Components for its IPW series of self-priming centrifugal pumps, from global public health organization NSF International. The IPW Series is a self-priming centrifugal pump with a vertical suction lift of 20 feet and a maximum flow rate of 180 gallons per minute. It is ideal for transferring and delivery of potable (drinking) water.

AviationPros.com/21083123



FLIGHTBLOO Inland Technology Inc.

Inland Technologies is an AMS 1476C compliant manufacturer of Aircraft Lavatory Fluid. FlightBloo is based on a feedstock comprised entirely of re-manufactured glycols and basic chemical ingredients. FlightBloo is readily biodegradable and is manufactured on-airport, minimizing transport and the product's impact on the environment.

AviationPros.com/12434721



MIRABOWL QC Mirandy Products LLC

Mirabowl QC is a concentrated lavatory bowl cleaner and deodorizer that has been specifically designed for flush tank treatment of all types. Mirabowl QC will not attack aluminum surfaces, while simultaneously cleaning pump systems and keeping O-rings from cracking. Mirabowl is effective, strong, pleasantly scented and safe to use. It prevents sludge buildup in the pump system – thereby minimizing pump failure rate. For deep cleaning maintenance on lavatory pump system, soak the entire pump for 12 to 24 hours then flush with steam or high pressure water.

AviationPros.com/12434758



LAVATORY SELF-SEALING FILL/FLUSH COUPLING AIRLINX Aircraft Services Inc.

Prevent blue fluid ramp spillage with the newly designed coupling that incorporates an integral self-sealing poppet. After use, the coupling can be disconnected from the aircraft without shutting off fluid flow through the hose. Upon disconnection of the coupling, the poppet automatically closes preventing the pressurized line from discharging fluid onto the ramp. If flow to the hose is shut-off, the closed poppet prevents residual fluid in the hose line from leaking out onto the ramp.

AviationPros.com/12434749



PORTABLE ELECTRIC DRIVEN GAS BOOSTER

Hydraulics International Inc.

The Hydraulics International, Inc. (HII) Portable Electric Driven Gas booster is rated to 10,000 psi for breathing air/N₂ and 4,500 psi for oxygen service. It is ideal for filling or topping off cylinders, tires, accumulators, struts and life rafts. Its two-stage and double acting design uses no belts or pulleys, making it the quietest electrically operated booster in its class at only 60 decibels. Complete with safety controls, filters, gauges and valves.

AviationPros.com/10027134



ENGINE 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 the company's growing list of wash probes, lances and spray rings, yet maneuverable enough for the most remote areas of an airfield.

AviationPros.com/10027072



TIRE INFLATION CAGE

Alberth Aviation manufactures safety products designed to protect employees, aircraft and property. The Tire Inflation Cage was developed and tested for overinflation failures specifically for the aviation industry. The larger cage is now available for G650 and Global Express wheels. Additionally, the Hydraulic Wheel and Brake Dolly prevent hand and back injuries and aircraft damage.

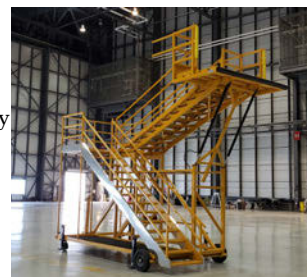
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B2 MAINTENANCE/CREW STAIRS

Wilcox Ground Services

With non-slip gripstut walking surfaces, tubular reinforced steps and platforms, railing systems, safety locks and fall restrains, Maintenance Stairs from Wilcox Ground Services are engineered certified not just structurally but to make sure they will let workers always perform their jobs safely.

AviationPros.com/21068591



SMART CHARGE

Semmco Limited

The digital tire SMART Charge unit from Semmco is a premium indoor and outdoor electronic gauge. Key features include calibrated accuracy of +/- 2 psi up to full scale reading of 350 psi and 350 psi safety relief valve. Robust, lightweight, accurate, fast and versatile with a backlit LCD screen for ease of use both day and night, the SMART Charge comes with a 2m hose and a range of tire valve connectors are available to suit all customer and airplane inflation applications.

AviationPros.com/12436166



STAINLESS STEEL STATIC GROUNDING REEL

Reelcraft Industries Inc.

Reelcraft's static discharge reels are used to ground equipment operating in hazardous areas. When properly clamped to the ground, the static discharge reel dissipates static electrical buildup, reducing the chances of sparking and the potential for explosion. The GS3050 reel with a 304 stainless-steel casing offers an added resistance to corrosion, heat and chemicals and is supplied with 50 feet of stainless steel cable.

AviationPros.com/12438008



SCISSOR DECK MAINTENANCE PLATFORMS

Easy Access Industrial Design Inc.

Scissor Deck Industrial Maintenance Platforms are powered, or heavy spring assisted, manual adjustable work platforms with stair or extension ladder access. They can service deck heights to 8' and is connectable for wrap around access. They are OSHA, ANSI and CSA safety compliant.

AviationPros.com/12434760



HEAVY DUTY PAYLOADER 2XL WITH SCISSOR LIFT

Columbia Vehicle Group, Inc.

Columbia's Heavy Duty Payloader features an 18-foot scissor lift that can travel and be used on multiple terrains. This all-electric, multi-purpose vehicle allows for lower fleet and maintenance costs, as well as improved overall productivity.

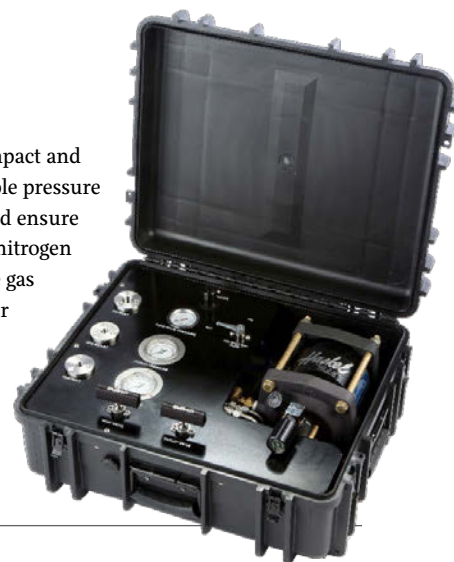
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PORTABLE CHARGING UNITS

Haskel

Haskel portable charging units are durable, compact and lightweight. They provide an infinitely adjustable pressure source for pressure testing with nitrogen gas and ensure that the optimum use of commercially bottled nitrogen gas down to a residual pressure of 7 bar. Charge gas pressures up to 500 bar are standard, but higher pressures can be achieved if required. Powered by compressed gas from a compressor or gas cylinder, they are suitable for operation in any location.

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IGLOOMX

JB Roche (Mfg.) Ltd.

The JB Roche IglooMX inflatable shelters allow users to hangar a plane anywhere.

AviationPros.com/12434606

MULTI-STAGE TRIPOD JACK

Columbus Jack, a Tronair Company

Columbus Jack is the largest supplier of hydraulic jacks to the U.S. military and a leading supplier of hydraulic jacks to the commercial aerospace market. Columbus Jack consistently complies with tough military standards, which aligns well with its culture of quality and customer service. Columbus Jack was founded in the 1940s as a supplier to the U.S. military. Regent was founded in 1929, and over the course of time, has served most of the world's airlines, airframe and aerospace manufacturing companies.

AviationPros.com/12427239



START PAC PRO

Start Pac/Rotorcraft Enterprises LLC

The Start Pac PRO is a very portable unit that is designed to be used as a safe and reliable jump-starting solution when aircraft batteries fail or are too weak to provide a satisfactory engine start. This lightweight solution is unique in that it addresses the requirements across both civil, commercial and military markets. The Start Pac PRO jump starting system can be used for helicopters and fixed wing aircraft as well as military UAVs. The Start Pac PRO comes standard as a complete set with an aircraft cable adaptor kit, proprietary charger and carrying case.

AviationPros.com/12434284



MAINTENANCE SERVICES & SHOP EQUIPMENT

AIRCRAFT GRADE ALUMINUM CRANES

SpitzLift

The SpitzLift 4 ft. crane weighs 40 lbs. and has a robust load capacity of 900 lbs. It is portable and adaptable to meet a wide range of on- and off-vehicle applications. Known for its ease of use, SpitzLift increases workplace safety and efficiencies. SpitzLift meets OSHA and ASME standards and is designed for vehicle weight reduction.



AviationPros.com/12424437

BATTERIES ON BOARD EZ RIG CRANE

The Batteries on Board EZ Rig Crane can lift 2,400 lbs. to 26 feet or lower, or pull up 13 stories while still rolling through a 3-foot door. The crane is now able to operate off rechargeable battery power and do not require plugging into an 110V power source. The crane is available in two battery options, lead-acid and lithium batteries.

AviationPros.com/12431421



AXLE SUPPORT STAND

Stertil-Koni USA

Axle support stands are essential in vehicle service shops. They are a secondary support device that securely supports raised trucks, tugs and more, facilitating a broad range of maintenance procedures. Used in even-numbered sets of two, four, six or more depending on the vehicle's weight, Stertil-Koni support stand capacities are 7 to 18 tons per stand.

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TMB 8150 STRETCH AUTOMATIC TOP LOAD PARTS WASHER

Renegade Parts Washers and Detergents

The Renegade Model TMB 8150 Stretch Automatic Top Load Aqueous Parts Washer features Dual 5 HP heavy duty wash cycle pumps and 170 gallon sump capacity. It cleans without solvents to lower environmental impact, increase automation and reduce labor costs. The washer operate with a durable Gear-Driven Spray Manifold to deliver high pressure force and high temperature cleaning to maintain consistent product quality.

AviationPros.com/21087774



▶ 20-GALLON TOWABLE OIL DISPENSER WITH OVERFLOW CONTAINER **U.S. Mfg. & Design Inc.**

The 20-Gallon Towable Oil Dispenser with Overflow Container offers a reliable oil dispenser unit on the flight line. A heavy duty steel frame ensures durability and safety. A standard 15-foot hose is included with the unit. Optional features include a fluid discharge meter, in-line water stop filter and a closed system kit.

AviationPros.com/21110466

▶ ERGONOMIC SAFETY LADDERS **LockNClimb LLC**



LockNClimb designs and manufactures ergonomic safety ladders for MRO service technicians who perform mechanical work on large commercial aircraft. The patented ladders are made one at a time in the USA, meet or exceed all applicable OSHA and ANSI standards and are being used by major passenger and freight airlines around the world.

LockNClimb has ladder packages for most every aircraft made by Boeing, Airbus, MD and others.

AviationPros.com/12434688

▶ ADJUSTABLE WIDE BODY STAND – #65190 **WAAG**

This stand fits all wide body entry doors. The upper deck easily adjusts from 161" to 208" with stops at 3-inch increments without hydraulics. The lifting handle raises and lowers the deck with little effort. Insert locking pins to lock stand into place. It's an OSHA compliant forward ascent and descent stair. Heavy duty steel construction with ample cross bracing for durability and long service life. This stand can be easily moved with two people.

AviationPros.com/21110590



▶ AIRCRAFT WHEEL MOVER **Newbow Aerospace Ltd.**

Newbow Aerospace's Aircraft Wheel Mover is designed to support safe and efficient handling and transportation of aircraft wheels. Offered as a single or double bay unit, and being suitable for narrow or wide body aircraft, allows operators to easily maneuver aircraft wheels.

AviationPros.com/12436654



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INTERNATIONAL MOTORIZED BOARDING BRIDGE

Aviramp

The Aviramp International acts like a fixed finger bridge, but for remote stands. The fully mobile, motorized boarding bridge is capable of servicing a range of aircraft from an Airbus A380 lower deck to an A320, as well as Boeing's B787, B777 and B757. It incorporates a 360-degree, switch-back design to provide passengers a gradual slope. With optional solar-power functionality, one person can steer the passenger ramp remotely while positioned on the ground, and a number of safety overrides are in place to provide further assistance.

AviationPros.com/12393457



APS 60 SERIES TRUCK- MOUNTED AIR STAIRS

Accessair Systems Inc.

The APS 60 Series Truck-Mounted Air Stairs are available with a wide range of options including an overhead canopy along with two air-driven canopies located at both the top and the bottom of the stairs giving passengers complete protection from the elements.

AviationPros.com/12441216



MOBILE STAIRS

Wollard International

Wollard Mobile Stairs can reach doorsills up to 228". The company offers the CMPS 170 Stair and CMPS 228, which offer a reach of 170.5" and 228", respectively. Both models are available with electric power. Diesel and gas power units also are available.

AviationPros.com/12295209

SAV5800 SELF-PROPELLED AMBULIFT

Timsan

The Timsan SAV5800 is a self-propelled ambulift for transporting reduced mobility passengers to all types of aircraft with front platform service heights from 0 mm to 5,800 mm. All aircraft doors are safely interfaced with the newly designed collision detection system of Timsan-GSE. It is designed with a trustworthy CAN-BUS system and sturdy structure, which can carry up to eight wheel-chaired passengers and four attendants.

AviationPros.com/12379031



We've got GSE covered.

DEUTZ stocks and builds remanufactured diesel engine options for ALL your equipment: conventional pushbacks, towbarless pushbacks, baggage and cargo tractors, belt loaders and de-icers.

All DEUTZ Xchange engines come with an industry-leading, national three-year limited fully transferrable warranty.

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Or visit your authorized DEUTZ Distributor for more information
www.deutzamericas.com/xchange

AviationPros.com/10017186



AEROS 95-145 AIRCRAFT BOARDING STAIRS

Aeroservicios USA Inc.

Aeroservicios' Aeros 95-145 aircraft boarding stairs feature an all-aluminum construction with 45 inch wide aluminum diamond plated steps, sliding hand rails with locks, a battery powered led lighting system and four heavy duty stabilizer jacks. The stairs have a working range of 95 to 145 inches and sport a double hydraulic adjustable height system, and can hold up to 5,000 lbs.

AviationPros.com/21068173



PASSENGER BOARDING STAIRS

TBD

Manufactured to withstand years of constant use in the most arduous environments with their rugged construction and superior finish, TBD's range of variable height telescopic and parallelogram powered towable and powered passenger stairs represent a long-term investment. Designed for rapid but safe deployment to access wide, narrow and regional body aircraft, TBD's passenger stairs can reach doors across any fleet composition.

AviationPros.com/21076803

APRONAUT ADELTE

The ADELTE Apronaut passenger boarding bridge (PBB) docking simulator has been revamped. The software-based PBB docking simulator allows comprehensive training in a zero-risk environment. The simulator allows staff to train repeatedly, performing docking and undocking procedures on any type of aircraft.

AviationPros.com/21106430



LOADING BRIDGE CANOPIES Estex Manufacturing Co. Inc.

Estex Manufacturing Company has supplied Loading Bridge Canopies for years. The company manufactures all styles of canopies and its tough and dependable fabrics meet specifications FAR 25.853(b) and NFPA 415 & 417. Estex Manufacturing Company also supplies facia pads, adapter pads, corner pads and installation hardware kits.

AviationPros.com/12389366



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NEW!

Ground power unit (GPU) reels
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FRONTBULL AMBULIFT

Bulmor Industries GmbH

The compact FrontBull Ambulift is designed for regional and small airports with an environmentally friendly electric drive. This ground support vehicle has been specially developed for boarding passengers with reduced mobility.

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TARMAC BUS

Veera Vahana Udyog Pvt Ltd

Veera's Tarmac Bus is fully air conditioned and offers a Euro IV diesel engine with fully automatic Allison transmission and Axle Tech front steer drive axle to ensure a smooth, comfortable, safe and fast turnaround time. At 14.5m long, 3m wide and with three wider doors on either side, it's designed in accordance with IATA AHM 950 and offers a carrying capacity of 110 passengers to assist quick boarding and de-boarding.

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PAXLIFT

Baumann S.r.l.

The PaxLift Ambulift from Baumann lifts from ground level to 8 meters, and offers integrated suspension, multi-purpose use and four steering wheels for maximum maneuverability. The PaxLift has a 100KW diesel engine for a speed up to 30km/h for ground support equipment operators. It also provides a dedicated Airport Passenger Transport design and high lifting capacities (up to 2,000kg). It includes space for six wheelchair passengers with assistance, and one-man operation.

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TRANS-CON MODEL HTSBAPV TRACTOR

Harlan Global Manufacturing LLC

The versatile Harlan Trans-Con Model HTSBAPV, is equipped with a rear deck that can be used for tools, generators, scissor-lifts, oil coolers, etc., making it an ideal all-purpose maintenance vehicle. The compact, shorter wheelbase and low-profile design is robust and allows for excellent all-around visibility. Many options are available including beacons, hitches and suspension-style seats.

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GROUND SERVICE VEHICLES

Wilcox Ground Services

Wilcox Ground Service Vehicles are designed and built with safety in mind. Each Wilcox Ground Service Vehicle is available with LED lighting, emergency lighting, fall restraint systems, first aid and flare kits, fire extinguishers, non-slip surfaces and much more to ensure safe work performance. Providing equipment which allows users to perform their job safely is a top priority.

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TUG ALPHA 4 Textron GSE

The TUG ALPHA 4 is one of the tractors in the TUG ALPHA family of pushbacks that consist of the TUG ALPHA 1, 2, 3, 4 and 5. This innovative pushback is designed with safety in mind and is capable of pushback and towing requirements for aircraft including the B747 and the A340. All components of the TUG ALPHA tractors are selected to make high performance, ergonomic and reliable tractors that will have a very long and stable service life in an extremely demanding environment.

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ELECTRIC TOWBARLESS AIRCRAFT TUGS JBT LEKTRO, Inc.

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The SiPsHitch patented linear force monitoring system alerts tractor operators to overstress situations before they cause aircraft nose gear damage, affording improved levels of protection in towing operations. SiPsHitch is a add on option for all makes of aircraft tow-bar type tractors.

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MODEL 140 LOW PROFILE PUSH BACK TRACTOR Wollard International

The Model 140 has 8,000 to 14,000 lbs. DBP ratings in a low-profile, multi-purpose tow tractor with a low center of gravity, which is well established in pushback and cargo hauling applications. It has a planetary reduction drive axle, which reduces driveline stress, amplifies torque and places engine horsepower and RPM at usable ramp speeds. It features a plate steel, electric welded, unibody chassis. The tractor is ideal for corporate, regional jet and FBO pushback duties. Model 140 can be powered with gas, diesel, LPG or CNG and can be customized with many factory-installed options.

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EAGLE TTR SERIES Eagle Tugs, a Tronair Company

The Eagle TTR Series is the next generation of Eagle tractors, implementing clean burning Tier 4 technology and improved design features. The Eagle TTR-6, 8 and 12 tractors were designed to tow or push rotorcraft and light to super mid-size business and regional jets in all weather conditions.

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TOWBARLESS TOWING TRACTORS

Kalmar Motor AB

Kalmar Motor AB offers a full range of aircraft towing 'towbarless' tractors and all models are available as electric (EL), electric with range extender (ELRE) or diesel powered.

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SPACER 8600 Mototok America LLC

The Mototok Spacer 8600 is suited for pushback operations. The Spacer 8600 comes with a NTO license for 737s and the 320 family, with others to follow soon. With low initial and maintenance costs, the eco-friendly electric drive and the one-man-operation, without the need of any driving license, users can utilize this tug for all apron and hangar operations.

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PUSHBACK PROCEDURES VR TRAINING SIMULATOR KBY Software LLC

The KBY Software Pushback Procedures Simulator (PPS) provides an interactive, controlled, environment for training in pushback ramp operations. KBY customizable courseware standardizes and re-enforces policies, procedures and best practices in an office setting, increasing training efficiency and frequency. Train to your standards using VR and voice recognition technologies. Increase employee engagement in a safe environment. Reduce instructor workload. Desktop and full-fidelity configurations, and enterprise custom configurations are available.

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COMET

MULAG Fahrzeugwerk GmbH u. Co. KG

The MULAG Comet 3E is part of a new range of electric airport tractors ideally suited for baggage handling, light cargo and even demanding cargo applications with towing tractors ranging from 3 to 6 tons. The new series meets the highest demands for availability, agility and low maintenance costs.

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Each pushback features standard functionality, such as hydraulic steering, front and rear towing couplers, four wheel drive and steering, complete cab enclosure, Curtis controller with self-diagnosis functionality, vacuum assist hydraulic brakes and complete telematics.



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TECKNOSIM PUSHBACK AND TOW SIMULATOR Tecknotrove Systems

The Tecknotrove Systems TecknoSIM Pushback and Tow Simulator combines the original controls of pushback equipment with a high definition curved display screen and is mounted on a 3 DOF electric motion platform to create a realistic and immersive training experience.

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PUSHBACKS, TRACTORS & UTILITY VEHICLES



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TractEasy is a driverless baggage tractor incorporating software that allows the robotized unit to operate in a complex and live ramp environment. TractEasy will be based on TLD's electric tractor JET-16 and will integrate all remote control, communication and safety detection tools developed by EasyMile.

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PUSHBACKSIM TRAINING SIMULATOR L3 Commercial Training Solutions

The PushbackSim allows users to simulate aircraft ground handling operations, minimizing aircraft damage and improving ground operator safety. The PushbackSim allows for repeat training scenarios year-round with zero risk to employees, equipment or aircraft.

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CHALLENGER 150E Trepel Airport Equipment GmbH

Trepel's electric conventional aircraft tractor allows users to handle B737 and A320 fleets while also pushing out the B767-200/300 at maximum ramp weight. The hydro-pneumatic front axle suspension provides driving comfort for the operator. Options include open drivers stand with side safety bars and solid tires.

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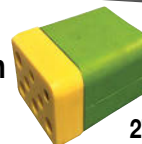


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AEROCADE LOW-PROFILE AIRPORT BARRICADE

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SERIES 9900 WIRELESS COMMUNICATION SYSTEM

David Clark Company Inc.

David Clark Company's Series 9900 wireless ground support products ensure clear, precise communications between crew members during pushback, deicing and maintenance applications. The Series 9900 Wireless System improves safety, efficiency and on-time performance while helping to provide incident avoidance and delays due to miscommunication.

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Wanco Inc.

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FOD BOSS

Myslik Inc.

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RAMP SAFETY MATERIALS Estex Manufacturing Co. Inc.

Estex Manufacturing Company Cone Caddies, for both traffic cones and delineators, accommodate wands and lights, while the company's ramp bags keep headsets, equipment and documents safe and dry. FOD buckets and covers help maintain a safe ramp environment.

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HEADSET SALES AND SERVICES

Ramp Communications

Ramp Communications sells and repairs David Clark wired and wireless headsets used during pushback, deicing and maintenance operations. The company services more David Clark headsets and related accessories than anyone in the United States, except for the factory. Ramp Communications' quality, expertise, speed and price is unmatched and the company guarantees satisfaction.

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FOD-RAZOR AIRPORT RUNWAY SWEEPER FOD Control Corporation, The

The FOD-Razor Airport Runway Sweeper is an efficient, portable and affordable method of eliminating foreign object debris (FOD) from military airfields, civilian airports, aerospace facilities, automotive proving grounds and racetracks. It conforms to FAA standards for friction mat sweepers. With no motors, vacuums or machinery to service, maintenance costs are close to zero.

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CLASS II SAFETY VESTS R&R Industries

R&R Industries manufactures Anti-Static/ANSI Class II Safety Vests. This hi-visibility apparel includes t-shirts, hoodies, rain gear and jackets. Available in lime or orange, the V265 vest comes in sizes small through 7X. The company decorates in house with screen-printing, heat transfer and/or embroidery.

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SafeSmart Aviation

The SafeSmart Access Chock and Cone Trolley allows ground staff to avoid tripping hazards by providing a portable place to keep wheel chocks as well as safety cones. The unit can be maneuvered easily around the ramp without the need to engage large vehicles.

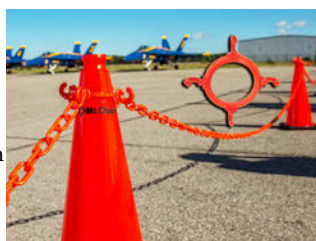


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- (1) 2005 FMC Model B400 35K GVW, 28K DBP Cab & AWS
- (1) 2007 TLD, Model TMX-150-15 33K GVW, Cab & AWS

CARGO LOADER

- (1) 2006 FMC Commander 151 Wide Deutz diesel 9,100 hours

DEICERS

- (1) 1999 FMC, LMD2000 Freightliner Chassis, Open Bucket
- (1) 1999 FMC LMD2000 Sterling Chassis, Enclosed cab, First Air

CABIN SERVICE TRUCKS

- (1) 2000 Global, CT-22-228, High-lift, International 4700 diesel
- (3) 2005 Global, CT16-168, High-lift, Ford F650 diesel

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▲ Editor - Josh Smith
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Stay in Touch

Recent trade shows have allowed us to connect with many of you, but remember we're available year-round to the members of our industry.

It's been a busy stretch for the team at *Ground Support Worldwide* and *AviationPros.com* with a number of trade shows and conferences taking place over the last several weeks, including the NATA Ground Handling Safety Symposium, inter airport Europe and NBAA-BACE.

Beside building up frequent flyer miles and hotel points, industry events allow us to make professional connections at networking events, engage in informative seminars and discover the latest technology on exhibit. These opportunities are the foundation upon which we construct plans for the editorial topics covered in the magazine.

Meeting with people face-to-face is valuable. But we don't have to run into one another at a trade show booth to discuss article ideas. Our publication is here to serve the industry and your direct feedback assists us in that mission.

Please contact us to share company announcements, discuss challenges faced in the field or point out innovative solutions helping the industry evolve.

Perhaps the easiest way to reach us is to send an email or give us a call. My contact information is in the top-left corner of this page every issue. I'd love to hear from you.

You can also reach us through social media channels. Find us on Facebook (Facebook.com/GroundSupportWW), Twitter (@GroundSupportWW), Instagram (groundsupportww) and LinkedIn (linkedin.com/groups/1763027).

I hope I get a chance to speak with you at the next trade show. But if we don't cross paths, know that our entire team is happy to 'talk shop' at any time. Stay in touch and let us know how we can help you most.

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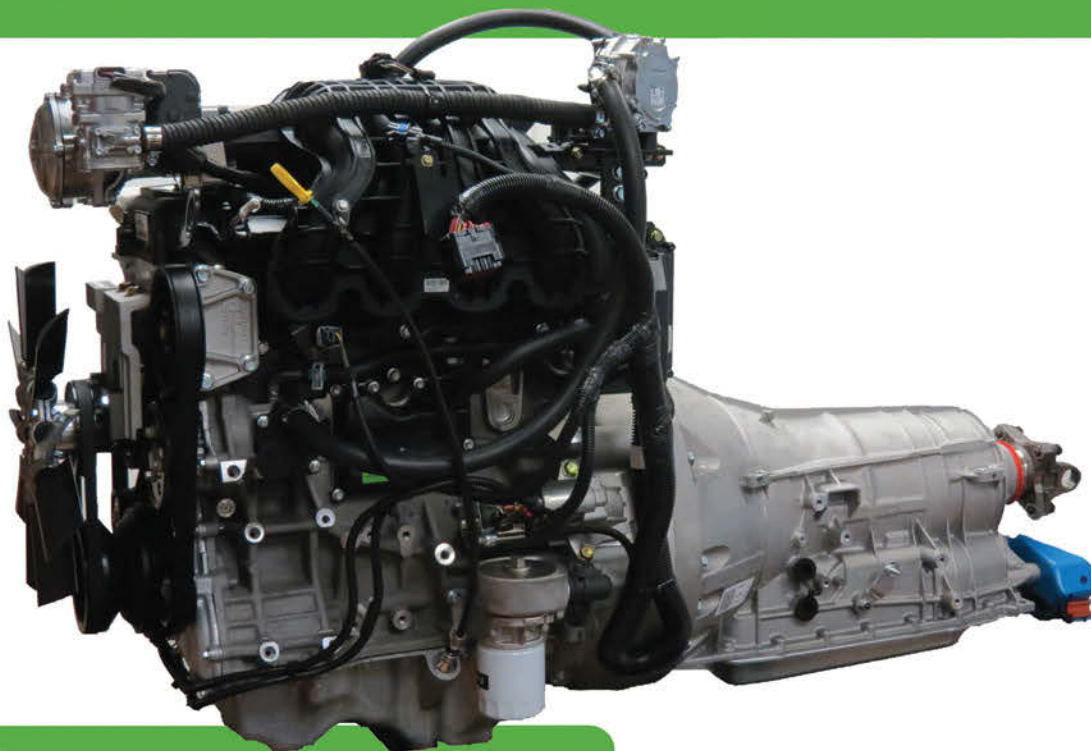
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