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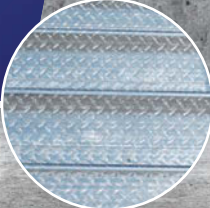
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How the Industry Aims to Increase SAF Production

Programs and initiatives adopted both domestically and abroad highlight sustainable aviation fuel's value in decarbonizing aviation.

On the heels of the Inflation Reduction Act, the adoption and increased production of sustainable aviation fuel (SAF) has received more support.

At the 41st Assembly Meeting of the International Civil Aviation Organization (ICAO), held last month in Montreal, member states adopted a long-term aspiration goal (LTAG) of net-zero carbon emissions by 2050.

According to ICAO, the achievement of this LTAG will rely on the “combined effect of multiple CO₂ emissions reduction measures,” including the increased production and deployment of SAF along with other factors like the accelerated adoption of new aircraft technologies and streamlined flight operations.

“States’ adoption of this new long-term goal for decarbonized air transport, following the similar commitments from industry groups, will contribute importantly to the green innovation and implementation momentum which must be accelerated over the coming decades to ultimately achieve emissions free powered flight,” Salvatore Sciacchitano, president of the ICAO Council, said in a press release announcing the LTAG.

Also during ICAO’s Assembly Meeting, support was pledged to the new ICAO Assistance, Capacity-building and Training for Sustainable Aviation Fuels (ACT-SAF) program, which is designed to accelerate the availability and use of SAF.

What’s more, countries participating in ICAO’s Assembly Meeting agreed on a new baseline for the Carbon Offsetting and Reduction Scheme for International Aviation (CORSA).

During a webinar hosted by Third Way titled A Flight Path for Sustainable Aviation Fuel Policy, Annie Petsonk, assistant secretary for aviation and internal affairs for the U.S. Department of Transportation, shared thoughts on why airlines’ renewed pledge to CORSA is vital to the LTAG of net-zero carbon emissions by mid-century.

“CORSA was suspended, effectively, during the pandemic. So, for the years 2021, ’22, ’23, the airlines do not have an effective obligation to reduce emissions. But as a result of [October’s] agreement, starting approximately in 2024, international

airlines flying between countries that have volunteered for CORSA – and that’s over 100 countries now – have the obligation to limit their net emissions to 85 percent of their 2019 emissions,” Petsonk said.

“If that sustainable aviation fuel is produced in a way that, on a lifecycle basis, reduces emissions below what conventional jet fuel would produce on a lifecycle basis, then those reductions can be counted toward the airlines’ goals under CORSA and also under the U.S. Sustainable Aviation Fuel Grand Challenge and the roadmap for meeting the Grand Challenge,” she said.

The SAF Grand Challenge is a U.S.-based initiative. The collaborative program is being conducted by the U.S. Department of Transportation, U.S. Department of Energy, U.S. Department of Agriculture and other agencies to establish a strategy for increasing the production of SAF on a commercial scale.

“The SAF Grand Challenge is a government-wide effort to work with the industry to reduce the cost, enhance the sustainability and expand production – not only to achieve that 3 billion gallons per year by 2030, but to do so for fuels that achieve at least a 50-percent reduction on a lifecycle basis compared to conventional jet fuel,” Petsonk said.

“That is where we’ll begin to see the real climate benefits from using these fuels.”

The roadmap for meeting the SAF Grand Challenge identifies six action areas within activities that may impact the program’s objectives of expanding SAF supply and use, reducing the cost of SAF and enhancing SAF’s sustainability. These six actions include feedstock innovation; conversion technology innovation; building supply chains; policy and valuation analysis; enabling end use; and communicating progress and building support.

According to Petsonk, the agencies working cooperatively to implement these six action items of the SAF Grand Challenge coupled with ICAO members’ establishing a LTAG of achieving net-zero carbon emissions by 2050 while strengthening CORSA obligations should “provide a powerful signal to the market that sustainable aviation fuel is here to stay.” **GSW**

Tractor Tales

□ Perfect flying conditions don't matter if your only tractor has a major failure. That's just one real world story from one of our customers in New Mexico. When it happened, Mercury promptly dispatched Cummins Service Technicians to flash the ECM and get the unit back online before it could have an impact on operations. That's the Mercury standard. At Mercury we keep things moving, because there's no other way to do business. Read more Tales of the Tarmac at MercuryGSE.com/stories. □





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CONVEYOR BAGGAGE TRANSPORT SYSTEM R.J. DESIGN LLC

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PULSAR 7E MULAG FAHRZEUGWERK GMBH U. CO. KG

This container pallet transporter with an electric drive can transport heavy cargo, standard LD and MD containers and pallets up to 196" (5640 mm) completely without CO2 emissions. Powered by two 12 kW asynchronous motors and two 465 Ah traction batteries, the vehicle travels up to 15.5 mph (25 km/h).

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The FAST AlphaCart is engineered with rotomolded construction for strength, durability and corrosion-resistance, but with less weight to reduce wear and tear. An interlocking framework allows for easy repairs, while the channeled shelving, interior lighting and integrated handles enhance operator safety and performance.

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MOBILITY CHAIR LIFT CLYDE MACHINES INC.

The Mobility Chair Lift was designed to reduce back injuries on the ramp by assisting the user to lift passengers' electric wheelchairs from the ground level onto the belt loader. This unit is powered by a 12-volt electric over hydraulic lifting mechanism with an on-board battery charger and solar panel recharging system.

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COMMANDER 30i E CARGO LOADER JBT CORPORATION

JBT Commander 30i E Electric Cargo Loaders offer configurability, an intelligent power system and accessible components. The Commander 30i uses the latest construction methods and materials; is available with iOPS monitoring and diagnostic capabilities and can be tailored to a user's needs. The cargo loader requires less training; is quicker to deploy; has greater longevity; and includes JetDock operator assist automated docking options.

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KNOCK DOWN BAGGAGE CART

WILCOX GSE

Wilcox Knock Down Baggage Carts are built to the same superior quality as the Wilcox Baggage Cart but designed to drastically cut down on shipping costs. Sides and top are shipped loose and assembled on site by customers. Standard features include solid tires, reinforced webbed curtains, front grab handles, corner bumpers and rear E-Hitch. The baggage carts come with an 8,000 lb load capacity.

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POWER STOW AMERICAS, INC.

The Rollertrack Conveyor is a versatile belt loader extension that is built into a mobile belt conveyor in order to facilitate the loading and offloading of passenger baggage and cargo in the aircraft cargo hold. Simple, safe and logical for users, the system has reduced body injuries by more than 50 percent and provides ground handlers, airports and airlines an option for up to 35 percent faster baggage handling times.

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PD-8010 CARGO DOLLY

PAR-KAN COMPANY

Par-Kan's PD-8010 Cargo Dolly can handle two LD-1 containers, one LD-39 and many other sizes of ULDs and pallets in between. The dolly's drop-in casters, with a rating of 440 pounds each and the capability of swiveling 360 degrees, move easily under the weight of ULD containers. It can be configured for side- or end-loading with a roller deck or all direction loading with a caster deck. Additional features include a heavy duty pallet stop and VR locks, while fork pockets protect the undercarriage. The unit also offers solid tires, a spring-loaded e-hitch and a torsion relief tow-bar with a tow-bar activated braking system.

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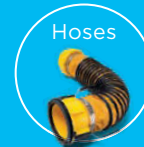
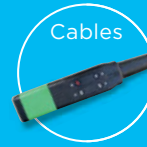
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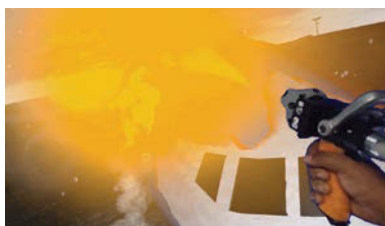
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MISCO REFRACTOMETER

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valve to ensure positive shutdown if a water slug event takes place.

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AIRFIELD AUTOMATION SAFE2GO APP

AIR BP

The Airfield Automation safe2go app consolidates data on airport fueling operations, verifies fueling requirements and captures an acknowledging signature from the pilot or airline representative. Aside from the enhanced safety barrier, operators benefit from faster, more comprehensive and more accurate fueling as well as data delivery.

AviationPros.com/21274137

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 maximum protection from impact using a narrower chassis and flexible joints to protect the pipework and valves. The 5K Refueler comes standard with BETA's all-aluminum filter vessel.

AviationPros.com/12431533



JST2-110AV-15-TL TRAILER

DAVCO ENTERPRISES LLC

The JST2-110AV-15-TL trailer offers two 110-gallon polished aluminum single wall tanks, which measure 30 inches in diameter by 36 inches in length. The trailer width is 70 inches wide by 144 inches long and has a GVWR of 3,500 pounds. The trailer features a 2-5/16-inch ball type coupler or pintle hook, DOT compliant running lights, turn signals, stop lights, tag bracket and seven-way plug. With 13-inch steel white spoke wheels and nylon tires, the trailer has an aluminum diamond tread lockable tool box/battery box, a shut-off switch, battery charger with plug-in receptacle and many more features.

AviationPros.com/21278000



WATER BARRIER FILTERS

PARKER VELCON

CDF-X and ACO-X filters block water before the aircraft without using SAP. CDF-X is qualified to EI-1588 and is a direct drop-in replacement for all 2" SAP monitor cartridges. ACO-X is designed for the company's VF-61, VF-62 and VF-609 filter housings and similar competitors' housings. ACO-X meets the effluent fuel quality and structural requirements of EI-1588. There are no additional parts required to install, no piping changes and no operational changes.



AviationPros.com/21233942

TCS 700 DIRECT REPLACEMENT ROTARY FLOW METERS

TOTAL CONTROL SYSTEMS

TCS 700 3", 4" and 6" flow meters now offer configurations for direct replacement of Avery Hardoll and comparable meters. Available in both anodized aluminum and carbon steel housings (4" only) with flow rates up to 4540 LPM, these flow meters can be used in an array of applications including loading terminals and aircraft fueling. All meters have international custody transfer certifications (OIML, Measurement Canada, NTEP) and can be equipped with various electronic and mechanical registration.



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**3500 PCA
ITW GSE**

The ITW GSE 3500 is the only PCA on the market that automatically adapts its airflow to the specific aircraft type – and not just to an aircraft category. Raising the bar on gate economy, this PCA’s innovative technology gives airports the opportunity to not only optimize airflow, but also reduce infrastructure costs. The 3500 PCA provides added features and low energy consumption.

AviationPros.com/21284357



**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 aircraft systems for extended periods of time and 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 can replenish both battery banks.

AviationPros.com/21112662

PCA HOSES

AMCRAFT MANUFACTURING INC.

AmCraft Manufacturing fabricates pre-conditioned air (PCA) hoses. The company offers 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. AmCraft can also customize hose configurations to fit specific needs.



AviationPros.com/21159203

AIRCRAFT 400HZ ALTERNATOR

WEG ELECTRIC CORP.

WEG 400Hz alternators are especially designed for aviation ground power units driven by reciprocating engines. The robust and compact flying lead configuration allows for seamless and flexible integration into GPU package designs while ensuring long-term reliability in the field.



AviationPros.com/21242241

AVIATION GROUND SUPPORT CABLES

PHILATRON WIRE & CABLE

Philatron Wire and Cable manufacturers a complete line of Aviation Ground Support Cables made with its new anti-corking design. This full line of ground support assemblies are UL listed with a double reinforced jacket rated -40 to +125C for extreme conditions.



AviationPros.com/21284215

ATTACHABLE AND MOLDED GSE CABLE ASSEMBLIES

U.S. AIRMOTIVE GSE

U.S. Airmotive GSE cable assemblies for AC and DC applications feature silver-plated copper alloy contacts and military-qualified cable. Connectors include an insulating sleeve around power contacts. All cable assemblies are fabricated to MIL-C-7974C. Qualified source of supply for AS(MS)25019, AS(MS)90328, AS(MS)90347, AN3430 and AN2551 cable assemblies; AS(MS)25486 and AS(MS)25488 connectors. A complete line of ground power cable assemblies and attachable aircraft connectors are available, and U.S. Airmotive GSE supplies custom configurations to meet any requirements.



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Is your airline Flying on renewables yet?

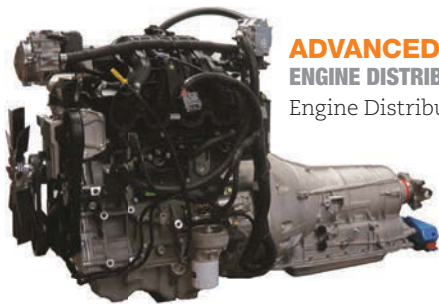
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**ADVANCED TECHNOLOGY ENGINES
ENGINE DISTRIBUTORS INC.**

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 1.5-, 2.5-, 3.7- and 6.2-liter engines range from 20 to 200 horsepower. A 7.3-liter version is also available. Options include gasoline, LPG, CNG, natural gas and dual fuel. The company offers a five-year, 5,000-hour warranty for the GSE market.

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**STAND, DIESEL AND ELECTRIC MOBILE ACUS
VERDE GSE**

Designed with multiple systems and ease of maintenance, Verde's line of ACUs support any military fight, select cargo and bomber aircraft. Verde's ACUs support the F15, F16, F18, F35, P-8, C130J, B1B, T50, FA50 and EFA Typhoon Mirage. Features include: pressure from 1-13 PSIG, 25-90 nominal tons, 18-55 grains of moisture and airflow from 34-600 PPM.



AviationPros.com/21113714

**JETGO 900
AERO SPECIALTIES**

The AERO Specialties JetGo 900 is a groundbreaking development in the company's line of JetGo aircraft ground power units. Utilizing modern production methods and materials, AERO Specialties has created this 28V GPU. The futuristic design, active aircraft safety features and reliable performance ensure that the JetGo 900 is a quality choice for 28V ground power requirements.



AviationPros.com/21214118

**JETLINKSYS
UNITRON POWER SYSTEMS**

Unitron Power Systems presents 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, fixed or towable configuration.



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**RAMPTECH PCA ADAPTOR
SAGE PARTS**

The Sage Parts patented Ramptech PCA Adaptor is designed to be lightweight, fit any aircraft and any locking configuration, and is maintenance-free. Thanks to this design, the Ramptech PCA Adaptor avoids excessive wear and tear to the ducting caused by dragging the assembly back and forth from storage to the aircraft.



AviationPros.com/21159179

D70 OVER-MOLDED BATTERY CONNECTOR (EURO)

ANDERSON AIRMOTIVE PRODUCTS CO.

The Anderson Airmotive Products Co. Series D70 Over-molded Battery Connector (Euro), per the DIN43589-1 specification, provides users with a true watertight configuration for fast battery charging systems. A first-of-its-kind connector that is over-molded on the cable provides users with an IP65 solution that ensures performance in severe battery environments. Key features include compatibility with other DIN43589-1 battery connectors; silver-plated copper alloy contacts for electrical performance; manufactured with durable synthetic rubber for long life; provides up to four auxiliary contacts; tailorable to user needs for cable gauge and cable assembly length.



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**3H50 3-CYLINDER 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 U.S. and overseas emission regulation, including EU Stage V, without losing power.

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**BOOM AIR LITE
TWIST AERO**

Twist Aero's Boom Air Lite is a streamlined version of the company's proprietary Boom Air Hose Management System. The "Lite" version of the Boom Air product deploys 80 feet of hose, which covers the vast majority of ramp applications. The Boom Air Lite product is 30 percent lighter than the standard product and fills a substantially smaller dimensional envelope. Benefits of Boom Air include easier, faster one-person deployment and retraction of PCAir hoses, leading to faster turns. Additional economic benefit comes from significantly higher instances of attachment of PCAir hoses to the aircraft, which saves fuel from less APU burn at the gate.

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**28V DC GROUND
POWER UNIT
CURRENT POWER LLC**

Current Power LLC is a leading manufacturer of 28V DC power supplies for corporate, military and commercial customers. The company is known most for its



600 and 400 amp mobile units. These units provide 2,000 and 1,200 amp peak starting current and its exclusive re-connectable input, which makes a single model useable around the world, on any 50 or 60 Hz power. The MSR-600 is a workhorse in the industry.

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**GF15 COMBO UNIT
GUINAULT**

The Guinault GF15 Combo Unit combined air conditioning units/400 Hz are designed to replace an aircraft's APU and maintain the correct temperature in the cockpit and cabin during pre-flight operations, boarding and maintenance. These units make it possible to meet the needs and requirements of code B and C civil aircraft in continental, tropical or desert climates.



AviationPros.com/21261324

**400HZ GLOBAL SMART
CONNECTOR
PAGE GSE**

The PAGE GSE 400Hz Global SMART Connector is the first molded connector with internal sensing LED indicators. This SMART Connector can be installed onto most GPUs without the need for additional remote LED circuits. The rugged design, modular construction and long-lasting LEDs will provide years of reliable service on the ramp.

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**PCA LOAD
BANK
HALL TECHNICAL
SERVICES**

This Load Bank is a pre-conditioned air tester designed to be utilized as a maintenance analyzing tool by GSE/HVAC technicians. The Load Bank is used to determine end of hose discharge status on any PCA unit.



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**WG2503
KUBOTA ENGINE AMERICA**

Kubota's WG2503 is part of the spark-ignited engine line that is built on the same platform as its diesel counterpart. The engine is available in gasoline, LPG and natural gas with dual fuel options. The output range is 57-62 HP at 2700 RPM.



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**HAND CRANK PCA DUCTING REELS
REELCRAFT INDUSTRIES, INC.**

Reelcraft's PCA reels handle 75' of 14" I.D. pre-conditioned air ducting and are designed for ergonomic handling of air ducting. When properly installed, Reelcraft's PCA reels supply continuous clean pre-conditioned air to stationed aircraft, keep expensive PCA ducting protected and improve safety on the tarmac. Aluminum construction and a safety yellow, baked-on powder coat finish combine to provide corrosion resistance. Heavy-duty casters are available for easier mobility.



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BIG GREEN HOSE
TWG SUPPLY

The Big Green Hose delivers air at the perfect temperature for complete passenger comfort. TurnAir Technology uses the air produced by the PCA rather than traditional insulation to maintain air temperature the complete length of the hose. Constructed from the highest quality, industry-proven, heavy-duty nylon materials, the Big Green Hose is the hose for every environment.



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400HZ RESISTIVE AND REACTIVE LOAD BANK

MCM ENGINEERING, INC.

MCM Engineering 400Hz load banks are essential to the proper and complete testing of any ground power source. Built for decades of dependable use, the enclosure and controls can be customized to fit unique customer requirements. Each load bank has accessible individual step loads and test points. Easy to operate and maintain. Available with carts, trailers and cooling options.



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BATTERY GROUND POWER UNIT
GUINAULT

The Guinault Battery Ground Power Unit ensures the supply of electrical power to aircraft up to code C (A320/B737) in the most extreme environments. This unit is based on the Guinault ultra-sturdy diesel GPU technology, Guinault solid-state converter and third-party lithium-ion high capacity battery. The modular design enables the integration of numerous options within a universal standard. The machine can receive different types of batteries, with capacities from 55 to 165 kWh.

AviationPros.com/21261315



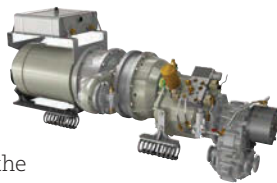
TUG ENDURANCE BAGGAGE TRACTOR
TEXTRON GSE

TUG Endurance Baggage Tractors are available in cab forward or cab aft driving positions and multiple powertrain options. The lithium model uses General Motors and PCS high-capacity technology, that utilizes the J1772 connector for level 2 AC charging and DC fast charging. TUG Endurance models are CE certified, feature an electronic parking brake, autonomous ready control systems, remote diagnostics and a host of options designed to support crews.

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ELECTRIC PROPULSION SYSTEM
TRANSFLUID LLC

The EPS consists of a "Powershift" transmission coupled to a permanent magnet electric motor. This optimizes the driving experience of the vehicle and enhances the motor performance. The transmissions ratios allow the user to select the optimal ratio. The addition of the DROP BOX on the output of the EPS provides additional ratios. Batteries allow the recovery of kinetic energy during deceleration and braking storing energy that would otherwise be lost, increasing vehicle availability.



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ALTUS II GSE FAST CHARGER
MINIT CHARGER, LLC.

Minit Charger has totally redesigned its Altus II outdoor-rated fast charger. The design will incorporate the latest SIC (Silicon Carbide) Technology. Additional features include low and high voltage output from the factory or field upgradeable; 40kW output with 20kW dedicated to each port; automated alerts and reports via SMS/email; and automated billing and language support. The resulting design will improve reliability and maintainability while reducing the overall cost of the charger.



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180 KVA EGPU
ITW GSE

ITW GSE has added a 180 kVA, 400 Hz model, including a 140 kVA model off the same platform, to its line of battery-powered eGPUs. The new and more powerful eGPUs are especially suited for wide-body aircraft as they have two 400 Hz power outlets and larger battery capacity than the 90 kVA eGPU. With the completion of its battery family, ITW GSE can supply an eGPU for any aircraft.



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LITHIUM-ION BATTERY PACK
AVEREST, INC

The Averest-Flux Power lithium battery provides airlines and handlers a clean, safe, innovative and affordable lithium-ion option. This modular lithium-ion pack can be seamlessly integrated with most eGSE brands, while reducing total cost of ownership.



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DATA-BASED LITHIUM BATTERY SOLUTIONS
COLIBRI ENERGY

Colibri delivers lithium battery solutions for new vehicles or as spare parts batteries. The software-controlled, modular battery-based energy solutions can be geared to the ground handling and logistics market.



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EV BATTERY CHARGING CABLE
MCM ENGINEERING, INC.

MCM Engineering's EV Battery

Charging Cable offers a high-quality molded connector that provides a compact head with conical strain relief. The head features silver-plated copper power and control contacts with retaining springs to maintain insertion tension over the life of the cable. MCM's cables are made in custom lengths, and the company offers lugged or Euro connector pig-tails. The connector is also available with replaceable threaded contacts and yellow wear nose.

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SKYLINK POSICHARGE

SkyLink is a cloud-based business intelligence platform that collects energy consumption, usage, safety and performance data from PosiCharge fast-charging systems. Asset management is centralized, intelligent, and scalable to a user's needs.



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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 is designed with Wi-Fi connectivity for remote monitoring, control and seamless integration with ACT's bi-directional, cloud-based data management platform, ACTintelligent.



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NEXSYS PURE BATTERIES / WI-IQ BATTERY MONITORING DEVICE
ALLEN ENERGY

NexSys PURE batteries from EnerSys never require watering, providing a virtually maintenance-free power solution. NexSys PURE batteries offer ground support crews the flexibility for charging between flights, without requiring long equalize charges.



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SNOWBOSS: SAFER SNOW REMOVAL OPERATIONS

Prevent runway incursions

SnowBOSS software keeps airport snow removal teams safer while managing the pressures and demands of snow and ice removal, especially in reduced visibility. SnowBOSS helps prevent runway incursions by alerting equipment operators of a potential incursion before it happens. It also allows team supervisors to monitor and coordinate the work of snow removal vehicles inside and outside Aircraft Operations Areas for more efficient use of resources.



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GSE ELECTRIFICATION PROPULSION SYSTEM

POWERTRAIN CONTROL SOLUTIONS (PCS)



The PCS GSE Electrification Propulsion System combines GM's advanced electric vehicle technology with PCS' integration engineering. The result is a complete lithium battery and drive system capable of up to 200 horsepower that installs seamlessly into existing GSE and new vehicle designs. The system includes onboard AC charging and DC fast charging using region specific connectors for global charging flexibility. The system is compatible with widely used PCS GSE components including the shifter and parking brake.

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TIGER LI-ION
WAEV INC.

Tiger Li-Ion tow tractors incorporate new electrification technology that outperforms internal combustion and other electric vehicles with significantly lower total cost of ownership, zero emissions, industry-first safety features and limited maintenance. Tiger Li-ion tow tractors are built on industry-proven steel chassis, with up to 60,000 pounds towing capacity, hitch options, color choices and durability features.



AviationPros.com/21284207

LITHIUM SAFEFLEX BATTERIES
GREEN CUBES TECHNOLOGY CORPORATION

Lithium SAFEflex batteries for GSE are drop-in solutions for nearly all electric vehicles. These batteries integrate lithium iron phosphate cells, electronics, packaging and a software platform. Lithium SAFEflex lowers CO2 emissions in comparison to fuel-powered equipment, helping ground support companies reduce their carbon footprint.



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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 tow-barless tractors, power carts, air starts, GPUs, pushbacks, belt loaders, stair trucks, towbars, hydraulic mules, catering trucks, maintenance stands, aircraft jacks and deicers.

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GSE - RENTALS/ LEASE/SALES/ SERVICE

MERCURY GSE

Mercury GSE supplies new and used equipment available for rent, lease and sale. The company's 70 years of ground handling and GSE experience provides customers with the facts needed to make the right purchasing decisions. Mercury carries a variety of equipment from the industry's leading manufacturers and maintains a full stock of inventory.



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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.

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GROUND HANDLING SERVICES

ACCUFLEET INTERNATIONAL, INC.

AccuFleet International's ground handling services include aircraft marshalling and towing; airstart; baggage and cargo handling; cargo line hauls; cooling and heating; lavatory and potable water service; and ramp-to-flight deck communication. In tandem with its ground handling, or as a stand-alone service, the company also provides cabin cleaning and passenger service.

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**GSE SUPPORT
SERVICORE G.S. CORP.**

Servcore offers knowledge on ground power units, loaders, air starters and other equipment to bring its customers the best service possible. The company provides sales, rentals, replacement parts, safety supplies, ramp accessories, technical support and training for all GSE.

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**GSE LEASING AND FINANCING
SOMERSET CAPITAL GROUP**

Somerset Capital is an independent leasing organization, based in the United States with operations in the U.S., Canada, the United Kingdom, Singapore and Taiwan. Somerset has funded more \$200 million of equipment in this space and has leased everything from refueler trucks to deicers to buses.

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**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.

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LEASE, RENT AND PURCHASE GSE

XCED AVIATION SERVICES

Xced is a source for on-demand wide- and narrow-body ground support equipment.

The company offers GSE from all manufacturers and flexible options to lease, rent or purchase based on the needs of a business. Xced delivers high quality new or low-hour used equipment and unmatched customer service.



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GSE MAINTENANCE

PRIMEFLIGHT GSE MAINTENANCE

PrimeFlight GSE Maintenance 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.

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GSE SERVICES

FORTBRAND SERVICES

Fortbrand Services is a complete source for ground support equipment. Since 1983, Fortbrand Services has been providing rentals, leases and sales of new and used ground support equipment to airlines, airports, ground handlers, FBOs, MROs and more. Fortbrand is a turnkey solutions provider to obtaining the equipment needed to run an operation.

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5G SERIES
Air Driven

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NATA SAFETY 1ST TRAINING CENTER

NATIONAL AIR TRANSPORTATION ASSOCIATION (NATA)

The Safety 1st Training Center (SFTC) provides exciting features, content and flexibility to training programs, helping build and maintain a talented, knowledgeable and experienced workforce. Providing standardized training and support, NATA Safety 1st is a leading resource for preparing individuals to safely handle general and business aviation aircraft.

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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.

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GSE SALES, RENTALS, LEASING
DAVIN INC.



Davin GSE specializes in sales, rentals and leasing of both new and used ground support equipment.

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SLC-300 LAVATORY SERVICE CART STINAR LLC

The Stinar Model SLC-300 Lavatory Service Cart features a 180-gallon waste tank and a 150-gallon rinse tank designed to service any conventional aircraft. This model is equipped with a gas engine, however, various other engine configurations are available and it comes standard with a 4-inch waste and 1-inch rinse hose.



AviationPros.com/21270913



CRUSH-PROOF LAVATORY DUMP HOSE U.S. 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 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 -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



LAVATORY SELF-SEALING FLUSH AND FILL COUPLING AIRLINX AIRCRAFT SERVICES INC.

Prevent ramp spillage with the AIRLINX V1325JS016A00 self-sealing extended long barrel lavatory service fill/flush coupling. After use, the coupling can be disconnected from the aircraft without shutting off flow to the hose. Upon disconnection of the coupling, the integral poppet automatically closes preventing the pressurized line from discharging blue fluid onto the ramp. The coupling can be used with or without a V8022-016A00 service plug.

AviationPros.com/21159194

AEROS PC 155 POTABLE WATER CART AEROSERVICIOS USA INC.

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



AviationPros.com/21068176

RAMPTECH COMPOSITE LAVATORY DRAIN COUPLINGS SAGE PARTS

Ramptech Lavatory Wye Drain Couplings are 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 and they also feature a stainless steel cam ring as well as a stainless steel retaining washer, snap ring and control shaft.



AviationPros.com/12394686



VACUUM TOILET SERVICE TRUCK VESTERGAARD COMPANY INC.

Vestergaard Company's toilet service truck is a standardized 3,000 liters. It can be delivered with or without a mixing system for rinse water. The units can be both electrical and diesel. The electrical version follows Vestergaard's strong focus on sustainability and is priced at a very competitive level.

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SAFE-LAV AERO SPECIALTIES

The patented AERO Specialties Safe-Lav cart's batching system determines and restricts the maximum quantity of fluid that can be delivered to the airframe to prevent damage caused by overfilling the aircraft lavatory system. This product can be installed on new lavatory service carts or as a retro-fit kit to units in the field.

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JLG ES2646 AND R2646 SCISSOR LIFTS
JLG INDUSTRIES INC.

The electric-drive ES2646 and the hydraulic-drive R2646 models have a platform height of 26 feet (7.92 m), a capacity of 1,200 lbs. and the ability to work both indoors and out. The models share a common chassis and platform, offering 32 feet of working height and the ability to carry two occupants to height in indoor applications.

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NITROGEN 2-CYLINDER DEMOUNTABLE TROLLEY
SEMMCO LIMITED

The Semmco N2 Cart/Trolley is designed to meet airport environment



requirements for safe transportation of gas cylinders. It offers a safe and clear low-and-high pressure charging control panel. It reduces manual handling incidents with an easy load cylinder cradle system and is easily towed and maneuverable. The cart / trolley is complete with safety pressure regulators, pressure relief valves and three-year panel calibration certificate.

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ELECTRIC TWO-STAGE AIR COMPRESSORS
JENNY PRODUCTS INC.

The Jenny Products line of Electric Two-Stage, Horizontal-Tank Stationary Air Compressors can be used for applications requiring greater pressure as



the line displaces between 9.1 and 107.0 cfm at 175 psi. Twenty-two belt-driven models provide size and power options, with tanks from 60 to 240 gallons.

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TIRE INFLATION CAGE
ALBERTH AVIATION

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.

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DTG WORKBENCH POWERSTATION
DTG

The Workbench PowerStation is a mobile, customizable, battery-powered workstation. It offers a motorized, height-adjustable surface for component assembly, customizable component storage bins for picking and battery to operate IT equipment and power tools.

AviationPros.com/21284394



MODEL MHL-316 MAINTENANCE HIGH LIFT TRUCK
STINAR LLC

The Stinar Model MHL-316 Maintenance High Lift Truck is designed and built to provide maintenance service to aircraft but is adaptable and can function across many industries. This model is equipped with a generator, compressor and jib crane to meet several operational requirements providing a full-functioning workshop in the sky.

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1085 WIRELESS MOBILE COLUMN LIFTS

STERIL-KONI USA

The Stertil-Koni 1085 wireless mobile column lift is a powerful, portable hydraulic lifting solution with a lifting capacity of 18,500 lbs. per column. Wireless connectivity means flexibility and ease of use – connect up to 32 columns, all with no cables to trip over. The eBright Smart Control System offers a simple touchscreen interface, while the automatic mechanical locking system bolsters safety to unprecedented levels.



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EASY-LOAD NITROGEN SERVICE CARTS

NEWBOW AEROSPACE, LTD.

The Easy-Load Nitrogen Service Carts manufactured by Newbow Aerospace are primarily designed to support operator safety and maintenance efficiency during aircraft nitrogen replenishment tasks. The



“easy-load” gas cylinder stowage cradle allows a single person to quickly load / off-load the heavy gas cylinders with very little manual handling requirement. The service cart is available in 2-, 3- and 4-bottle configurations and is equipped with a dual use low and high pressure gas distribution system and auto-retract hose reels as standard.

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WAAG

WAAG Aviation windshield replacement stands feature a counter-balanced deck without using hydraulics. As a result, height adjustments and stand positioning need only one person. Movable deck slats allow for precise stand-to-plane fitting. Stand 60223 adjusts from 161" to 219" and fits all wide-body planes. Stand 60225 adjusts from 132" to 190" and fits all narrow-body planes.

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Coxreels' Extreme Duty XTM Series spring rewind reel is based on the company's TMP T-Series Medium Pressure product line. All sizes of the XTM Series feature stainless steel rollers directly integrated into the all-welded steel box frame and utilize dual permanently lubricated bearings, fixing the drum assembly to the 1" steel axle for consistent stability. Special features such as swivel retainers and easily accessible ratcheting mechanisms are available. High temperature, steel core arbors transfer the heavy-duty spring motor torque to the multiple supported axle ensuring reliable rewind in odd positions or dirty situations. Available in pressure ranges up to 5,000 psi, and dedicated hose solutions such as suction hose, DEF hose, gasoline or fuel hose, the XTM provides a solution for high demand applications.

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PS-813B/E TOWABLE PASSENGER STAIRWAY

STINAR LLC

The Stinar Model PS-813B/E Towable Passenger

Stairway services aircraft with a sill height from 96 inches to 228 inches. This product features a two-section telescoping stairway supported by an extendable A-frame and a gasoline engine that powers a hydraulic pump to raise and lower the stairway, A-frame and stabilizers.

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SAV5800 AMBULIFT

TIMSAN

The SAV5800 Ambulift offers a service height range of 1,200 mm to 5,800 mm. With a durable and reliable chassis and powertrain, this self-propelled option has high stability capability against wind speeds up to 100 km/h with four synchronized electro-hydraulic operated stabilizers. This Ambulift has a 4.2m by 2.1m van body with multiple carrying/loading configurations.

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PBB REMOTE CONTROL OPERATING SYSTEM

ADELTE

ARCOS is an innovative system specifically developed to enable passenger boarding bridge (PBB) operations in a remote, safe and fast manner. ARCOS is composed of customized desk(s) located in a technical room of an airport where trained operators remotely perform PBB docking and undocking procedures. Due to the interconnectivity of all PBBs, with one centralized and secure system, the required number of operators can be reduced by 65% and docking times by 20%.



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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. Normally mounted on a Ford XL F550 series and available in gas or diesel models, the most recent edition includes an automatic handicap wheelchair lift.



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SIDE SHIFT CAB MODEL 269L

R.J. DESIGN LLC

This Side Shift Cab promotes safety for passengers and ground personnel. The side shift is located on front of PBB cab and shifts 18 inches left and right, making docking easy and loading and unloading passengers faster and easier.

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E.COBUS ELECTRIC AIRSIDE BUS

COBUS INDUSTRIES LP

The e.COBUS has been designed for increased autonomy with higher capacity and more efficient air conditioning systems for the hot summer climate. Pre-cooling/pre-heating the passenger compartment is possible during opportunity charging between operations.



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ESIDEBULL

BULMOR INDUSTRIES GMBH

Offering a reduction of up to 400,000 kg in CO2 emissions, the Bulmor ESideBull for passengers with reduced mobility (PRM) assistance is fully electric and provides safe travel with zero emissions. Lead acid or fast-charge lithium-ion technology is available. Additional features include compatibility with aircraft types up to A340; wind stability up to 100 km/h; a lifting height of 8,100 mm; and more.



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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. The International incorporates a 360-degree, switch-back design to provide passengers a gradual slope.



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PASSENGER BOARDING STAIRS

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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 represents a wise 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.

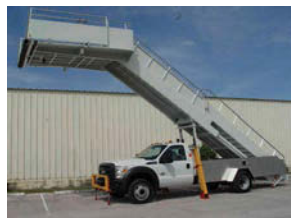


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**TRUCK-MOUNTED
STAIRS**

PHOENIX METAL PRODUCTS

As part of Phoenix Metal Products, Inc.'s full line of stairs, the model PNX-PAS228 Truck-Mounted Passenger Stair offers a door sill height from 96 inches down to 228 inches up. The chassis is a Ford F450 SD with six stabilizers.



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SPACER 8600 MOTOTOK AMERICA LLC

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CHALLENGER 150E TREPTEL AIRPORT EQUIPMENT GMBH

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MODEL M150 PUSHBACK AND TOW TRACTOR WOLLARD INTERNATIONAL

The Wollard International Model M150 Pushback and Tow Tractor offers diesel (Tier 4 and Stage V), gasoline and electric power options. With a drawbar pull of 10K – 16K, the M150 provides four-wheel steer and four-wheel drive. The tractor offers wet mesh internal brakes. At 167" long, 80" wide and 59" high without cab or 84" with cab and beacon, seating for up to three is provided and a climate-controlled cab is available. Multiple hitch and commissioning options are available and a one-year warranty comes standard.

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ETT-8X EAGLE TUGS, A TRONAIR COMPANY

The all new ETT-8X Electric Tow Tractor has a fully electric powertrain, making it the most sustainable vehicle in the Eagle fleet. Backed by the Eagle 3-year/3,000-hour warranty, the ETT-8X is equipped to pull up to 115,000 lbs. Eagle has been providing aviation customers with robust, reliable, and highly functional aircraft tugs and airport ground support equipment for more than 50 years.

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PHOENIX E GOLDFOHER AIRPORT TECHNOLOGY

The Phoenix E from Goldhofer is a towbarless, future-oriented, zero-emission aircraft tractor. The company's wide range of vehicles can be individually configured for an individual customer's use. Regardless of their battery configuration, the vehicles are capable of handling all common passenger and cargo aircraft on the market, from the ERJ170 to the B777.

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TE.208 BAGGAGE/TOW TRACTOR CHARLOTTE OF AMERICA

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TRACTOR DOORS
ESTEX MANUFACTURING CO. INC.

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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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TIM80 AIRCRAFT TOW TRACTOR
TIMSAN

The TIM80 Aircraft Tow Tractor has a DBP of 80 kN and provides a towing capacity up to 114 tons on wet concrete and a 1 percent slope. With its compact chassis and high capacity powertrain, the TIM80 offers a sound/vibration insulated cabin. A dual independent breaking system is provided for safe braking.



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MODEL HTSB TRACTOR
HARLAN GLOBAL MANUFACTURING, LLC

The Harlan Model HTSB is available with the latest model US/Euro Emission-compliant engines. This compact, shorter wheelbase, low-profile design is robust with all around visibility.

Designed for cargo and baggage applications, the unit can be utilized for pushback of small aircraft.



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TPX-100-E
TLD

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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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RAMP COMMUNICATIONS HEADSET SALES AND SERVICES

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 and speed is unmatched and the company guarantees satisfaction.

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FAMA LITE - REAL-TIME DATA WITH GSE PLUG-AND-PLAY
ADVEEZ



With two CAN bus plug or one and an OBD plug, FAMA lite adapts to most motorized GSE. Real-time data is available on the

Localeez application. Access control or speed control via geofence features are optional. Adveez is also launching its OTM GSM, an outdoor tracking module (OTM). The connected device is dedicated to non-motorized assets such as stairs, tow-bars and ULDs.

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The Argyle Zip: EH is a 6-inch men's derby-style, lace-up ankle boot with an industrial-grade side zip. The Argyle Zip: EH safety boot participates in the American Diabetes Association (ADA) Better Choices for Life program and is suitable for those with ultra-sensitive feet, needing additional comfort and protection.



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