





2020 BUYERS GUIDE







Azuga, Inc. The technology you need at a price you can afford

N ot all fleet tracking solutions are the same. There's no question that GPS fleet tracking can significantly improve your bottom line in any industry that requires service, sales, or delivery. If the GPS fleet tracking solution is costly to install, complicated to operate, and characterized as Big Brother, it loses its shine—in the office and on the road.

Founded in 2012, Azuga's awardwinning GPS fleet management solution is used by thousands of businesses helping customers turn data from vehicles and their use into intelligence that improves operations and safety, while reducing cost and risk. Azuga customers have saved on average \$9,462 annually, reduced accidents by 38%, and reduced speeding citations by 57%.

"Since day one, Azuga's mission has been to develop affordable and easyto-use fleet management technology solutions that both fleet managers and drivers actually enjoy using," Ananth Rani, CEO and founder of Azuga, says.

Azuga telematics offers a refreshing and innovative approach. It makes safe driving a fundamental part of fleet tracking by using a combination of GPS fleet tracking technology, data analytics, and driver-centric features that improve safety, benefiting drivers and businesses alike.

SAFETY IS IN OUR DNA

At Azuga, safety first is more than a saying—the Azuga Fleet platform is built with driver safety in mind. We're dedicated to solid fleet safety practices, from raising the bar for drivers in the cab to lowering costs on the balance sheets in the office.

Azuga Fleet driver scores tell which drivers need additional coaching and can also be used to reward the safest drivers. With Azuga FleetMobile, drivers can see their own safety scores so they can self-coach and improve their own driving skills. Since scores are based on safety, a small improvement reduces fuel consumption and more importantly, makes the fleet safer and reduces liability.

Our distracted driving technology allows employers to monitor cell phone use when vehicles are in motion and limit distractions, while Azuga Coach helps improve poor driving habits with personalized, online video-based training solutions tailored to fit every driver.

Azuga SafetyCam is a two-way dashcam that works with Azuga Fleet and Azuga FleetMobile to provide an integrated solution that delivers real benefits to help reduce risk and improve fleet safety.

AZUGA BENEFITS

The only program of its kind, our integrated gamification-based driver rewards program makes it easy for fleet managers to track driver safety and reward good drivers. It incentivizes drivers to stay on top of their game and makes it easy for them to cash in their rewards when they do. Drivers can also share accomplishments on social media. When drivers compete, everyone wins.

Azuga offers simplified, flexible, coterminous contracts. Add vehicles at any time without extending your contract length with a clear understanding of when your contract ends for all your devices.

Azuga breaks down barriers with first-of-its-kind pricing—enterprisegrade vehicle tracking with a lifetime warranty on every device purchased. Our smarter technology allows us to offer a lower fee structure, leaving



you with more money to invest in your business. We have the ability to create a custom package that fits your business' needs.

Our Customer Success team is driven by one aim: to ensure you get the most value from your Azuga relationship. From onboarding and training to support, our goal is to ensure that you have the best product, experience, and assistance.

We understand each fleet has unique needs. We'll help you tune the solution for your business with custom reports so you can pinpoint areas that work well and which need improvement to impact your bottom line.

Azuga offers a wide range of solutions and services for API. We aggregate data from many different sources to enable customers to do more with the data being collected. Now you can communicate with your CRM, ERP, HR, accounting and payroll, or other software applications to avoid re-keying data or maintaining separate and disconnected databases.

Azuga Fleet can help you reduce operating costs, improve driver behavior, save on fuel, improve customer service, and more. See why fleet managers prefer Azuga Fleet vehicle management software.

Find out more, visit www.azuga.com.

Small and mighty, SafetyCam goes the distance.



Shown here at actual size

Capture the whole picture with Azuga SafetyCam. It's the technology you need at a price you can afford.



Mighty smart.

By combining video, audio, and vehicle data, SafetyCam captures the whole story. View events in Azuga Fleet™ and Azuga FleetMobile!™



Mighty simple.

Look both ways at every turn. Easy to install and operate, SafetyCam captures both the road and the cab, in full HD.



Mighty safe.

Video evidence has proven to be the most effective asset for driver coaching and accident litigation. Protect your drivers with SafetyCam.



Good for drivers. Great for business.

SafetyCam is part of the Azuga fleet tracking family.

Whether you manage a fleet of five, 500, or 5,000 vehicles, Azuga Fleet is engineered to meet your specific needs. Add SafetyCam and get a clear picture of what's happening on the road, when it matters most.



COMTTUK A 40-YEAR HISTORY MANUFACTURING UTILITY BEDS

C omtruk[®] has just released its new 2020 range of commercial beds for pickups and chassis cabs. Comtruk launched in 1978 in Australia as a pioneer of the Australian "ute tray." Today, the company is blazing a trail for the future of commercial and recreational truck upfits with the Tri-Gate[™] commercial bed, the Sport Utility Bed (SUB[®]), and the EZ Lift-N-Load[™] side lifter.

The Comtruk Sport Utility Bed (SUB) was released in the USA in 2018. The Tri-Gate commercial bed and the EZ Lift-N-Load side lifter were released to the US market soon after to enthusiastic reception from automotive dealers and fleet managers.

TRI-GATE COMMERCIAL BED

Comtruk's Tri-Gate™ commercial bed is a load management system that really delivers. It helps fleets save money, reduce overheads, improve productivity, improve safety, increase fuel efficiency, and improve brand image.

The Tri-Gate bed is changing the way pickups and chassis cabs are used in commercial applications. With a tailgate and side gates that can be opened or completely removed, the Tri-Gate allows for total access to the load space. Greater access means easier and safer loading.

Customizable for the job or industry, Tri-Gate beds deliver flexible load management. Cargo is more secure with integrated heavy-duty uni-strut channels in the top side and underside of the floor, inside all four sides of the bed, and inside and outside the rack bars.

Tri-Gate beds were designed to meet commercial cargo management needs. The system offers hassle-



free loading and hauling of freight, merchandise, or other equipment the job demands. Made from industrial grade aluminum, Tri-Gate beds are strong and durable, yet light in weight, and corrosion-resistant.

EZ LIFT-N-LOAD SIDE LIFTER

The EZ Lift-N-Load[™] side lifter was designed for use with Comtruk beds on mid- and full-size pickup trucks. Rated for a safe working load of 500 lbs, the EZ Lift-N-Load side lifter makes it possible for one person to safely load a hot water heater, oil drum, pool chemicals, or similar.

The EZ Lift-N-Load is light in weight, yet high in strength. It features a large platform, remote control with safety lock, and the system enclosed within the lift arm.

Recognized in Australia for its safety benefits, the EZ Lift-N-Load side lifter received the "2019 WorkSafe Awards Best Solution to a Manual Handling Issue" and the "Best Solution of a WHS Risk (Medium to Large Business)" at the 2019 National Safety Awards of Excellence.

The combination of Tri-Gate and EZ Lift-N-Load make an efficient and effective resource for commercial fleets to increase productivity and safety.

EASY, EFFICIENT, ECONOMICAL

Comtruk beds are the new standard for commercial-use pickups and lightduty chassis cabs such as Chevrolet Silverado 1500, Ford Transit, Ford Ranger, and RAM ProMaster. The 2020 Chevrolet Silverado 1500 bed delete option makes a Comtruk upfit easy, efficient, and economical. The 2020 models are available now.

Find out more, visit www.comtruk.com.

BEST DICAUDINE EVER

THE 2020 COMTRUK[©] TRI-GATE™ LETS YOU DO MORE WITH YOUR PICKUP.



STRONG & LIGHT



LOWER OPERATING COSTS





RISK MITIGATION

Ib

HUGE CARRY VOLUME



Comtruk Tri-Gate pickup beds can be opened or completely removed, allowing for total access to the load space. This lightweight, durable workhorse reduces costs, while improving efficiency, productivity, and safety.





FIND YOURS AT COMTRUK.COM

DISCLAIMER: Please note Comtruk does not take any responsibility for the end user being unable to secure a date after fitting a Tri-Gate to their vehicle. Although this is the best pickup line ever, pickup lines only get you so far. If unable to find a date after purchasing a Tri-Gate we recommend improving your listening skills.



CTech Manufacturing

PUSHING THE BOUNDARIES OF STORAGE: MOTIONLATCH DRAWERS AND MORE

n the mid-1990s CTech Founder and current president, Jim Greenheck, realized that mobile storage solutions available on the market at that time simply weren't good enough. In short, they were bulky, unintuitive, and even ugly. As a longtime traveling drag racer, Jim depends on the storage solutions in his trailer to complement his highperformance efforts. Thus, CTech Manufacturing was founded on the belief that mobile storage should be more lightweight, accessible, durable, and customizable. Fast-forward 25 years and Jim's vision of better storage has manifested into an innovative manufacturing company providing carts, cabinets, drawers, and even tactical storage units to a wide range of industries.

MOTIONLATCH TOOL DRAWERS

Often imitated, but never duplicated, the patented MotionLatch[™] drawer developed by CTech was the first of its kind to introduce a full-length, duallatching handle. That means users can quickly unlatch and open the drawer by pulling on any point of the drawer face. There's no fumbling to find a hidden latch trigger or slide to open MotionLatch drawers, just one fluid motion. This critical latching feature has led CTech Tool Drawers to become one of the most popular drawer solutions in the work and service truck industry with many OEMs and upfitters exclusively offering CTech storage in their builds. With a targeted lead time of 10 days, even for custom-sized drawers, CTech is also the fastest drawer manufacturer on the market by a large margin. CTech tool drawers are also constructed with lightweight 5052 aluminum and assembled with fasteners. This



allows the unit to survive the rigors of transport while also cutting valuable weight and increasing payload, because lightweight doesn't have to mean light-duty. To finish each drawer, the frame, top tray, and drawer front are powder coated to provide a long-lasting, aesthetic finish of the customer's choice. CTech also just recently introduced a new 'Full-Bank' locking mechanism for its tool drawers, allowing the user to lock and unlock an entire drawer bank with just one turn of a key.

CABINETS FOR ANY DOMAIN

Whether it's an extremely complex cabinet system found in a race hauler or a simple workbench in the shop, CTech builds it better. Mobile trailer cabinets represent the first product ever produced by CTech, also featuring MotionLatch technology on both drawers and cabinet doors. Cutting weight and adding storage space without sacrificing appearance is the name of the game here. Each cabinet build shares a number of features with their ever-popular drawers, such as lightweight aluminum construction, MotionLatch technology, and powder coat finish. However, the list of cabinet features is farreaching from leak-proof countertops

to radius-edge corners, LED lighting, adjustable locking shelves, and much more. Although CTech cabinets were developed for mobile applications, their showroom-quality aesthetic have also made them very popular in the garage, shop, and industrial market where tough configurable storage is extremely valuable.

RE-INVENTING MOBILE STORAGE

If vou've ever watched a NASCAR race on TV, you've seen CTech carts in action. From a fully-equipped NASCAR-style pit cart to a simple toolbox, configurable CTech carts of all shapes and sizes are hard at work across many industries. Putting the power of MotionLatch technology on wheels pays dividends for increasing the efficiency of any space. CTech carts are available on a variety of mobile platforms using traditional casters or a dedicated chassis equipped with steering and brakes to provide not only mobile storage, but mobile worktop space and technology integration to fit any application. Like any other CTech product, the brand's carts are fantastically customizable and built for decades of service.

Find out more, visit www.ctechmanufacturing.com.



TARGETED **10 Day lead time on "built to order" drawers!**

Premium drawers built in a fraction of the time!



NOW AVAILABLE WITH LOCKING

When your job doesn't end where the road does, count on CTech to get your equipment there securely!

As seen on Discovery's hit series GOLD RUSH



ECHMANUFACTURING.COM

ASTES

Dakota Bodies

PROVIDING CUSTOM WORK TRUCK SOLUTIONS FOR OVER 20 YEARS

W ith no trade being the same, why should your truck be? We understand the need for special compartments, materials, sizes, and more based on your type of work. Different vocations require different tools. That is why we specialize in designing and manufacturing custom service and utility truck bodies to meet specific functionality needs. We want your truck to work for you, not the other way around.

DESIGN SOLUTIONS

At Dakota Bodies, design engineering is an important service in the process of manufacturing quality bodies for every market. The design team at Dakota can work with you to create a specific design or a body from a spec you have in mind. Combining stateof-the-art software with decades of experience, there is little missed when it comes to the functionality of a Dakota Body. We know what works and have plenty of suggestions and solutions for your challenges.

ALL SIZES & SHAPES

With a unique and customized manufacturing style, Dakota is able to manage various shapes and sizes of aluminum, stainless, and galvanneal products. And because of our large capacity, we can handle iobs of all different sizes as well. Our facilities are complete with cutting, bending, certified welding, caulking, paint, and powder equipment so the fabrication process goes quickly and smoothly. We can ship bodies primed or finished and use a zinc rich primer for added corrosion resistance. On top of that, we offer a 10-year rust-through warranty for aluminum and stainless bodies and a six-year rust-through warranty for



galvanneal. Dakota bodies are made to last and can withstand some of the harshest conditions.

NEWEST ALUMINUM BODY

Our new, aluminum Ranger Service Body, built for 2019 Ford Rangers, was designed as a compact unit for service trucks needed for smaller, lighter, and faster applications such as narrow streets, low clearance parking garages, hard-to-get-places, weight-restricted roads, quick service calls, and much more. Although the Ranger Body is smaller than traditional service bodies, it still has optimal cargo space available and room for custom options because of its lightweight, aluminum construction.

It features a hidden stowaway storage space located in the curbside horizontal compartment that allows for no wasted space. The powder coat protection and rubberized undercoating provide superior rust and corrosion resistance. And with numerous custom options available, we can make this body specifically yours to fit your wants and needs.

GROWTH & INNOVATIONS

Dakota Bodies continues to grow and invest in the future of the industry with a new manufacturing facility in Liberty, Missouri, a new west location in Watertown, South Dakota, and the main facility in Watertown, South Dakota, which is currently under expansion for the fourth time. Along with these expansions, technologies and innovative techniques are also continuously updated and improved to better serve our customers and help us remain one of the nation's top choices in the service and utility industries.

CUSTOM IS OUR STANDARD

Find out more, visit www.dakotabodies.com or call 866-227-0071.

DAKOTA BODIES ALUMINUM RANGE BODY

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// CUSTOM IS OUR STANDARD //

Diamond Roll Up Door, Inc ONE-STOP-SHOP FOR YOUR VEHICLE ROLL-UP DOOR NEEDS

Diamond Roll Up Door, Inc began manufacturing dry freight rollup doors for the transportation industry in Upper Sandusky, Ohio, in 1991. In January 1996, Diamond was acquired by AM Group, which introduced aluminum shutter door products to Diamond's current line of products. AM Group has operations in the United States, Europe, and Australia.

In January 2005, AM Group acquired Dover Roller Shutters Ltd in England. Dover was the original manufacturer of aluminum roll-up doors both in England and United States for the fire and emergency vehicle industry. Diamond, under the Dover Roller Shutters brand name, currently supplies aluminum shutters from its own product lines, as well as the original N30 door originally supplied from England. All manufacturing is conducted in Upper Sandusky, Ohio.

The combination of the dry freight doors (panel overhead doors) and aluminum shutter doors (coiling doors) makes Diamond a one-stopshop for any of your vehicle roll-up door needs. Diamond also has the ability to design and 3D model the best solution for your application. Contact Diamond via phone or web for help with the design and installation process.

Diamond is one company with multiple solutions; specifically for success, safety, access, and cost.

Find out more about Diamond Roll Up Door, Inc, visit www.diamonddoor.com. Find out more about Dover Roller Shutters, visit www.doverrollershutters.com.



Dry freight doors and aluminum shutter doors make Diamond a one-stop-shop for any of your vehicle roll-up door needs.



ONE COMPANY Multiple Solutions

Success, Safety, Access & Cost





DIAMOND ROLL-UP DOOR, INC. www.diamonddoor.com



CALL TODAY! 419.294.3373



www.doverrollershutters.com

Geotab Using data to meet the challenges of modern mixed fleets

n the 21st century, manufacturing and transportation have been redefined by IoT and connectivity. For many businesses, having real-time information on quality, performance, and safety is a critical part of operations. Vocational and off-road fleets are starting to see the advantages of fleet tracking technology beyond the basics and finding unique applications for their data. This means that telematics can no longer be a one-size-fitsall solution and needs to offer customizable features for heavy equipment and vocational vehicles.

Staying connected to a mobile workforce is critical, especially when emergency situations arise. For many businesses, having real-time information on quality, performance, and compliance is a critical part of operations. However, a fixed telematics platform is not the best approach for mixed fleets that have to deal with a variety of assets, weather conditions, safety, and changing requirements on the ground. This is why Geotab is bringing its world-leading, open telematics platform to mixed and off-road fleets.

Geotab's flexible and easy-to-use fleet management solutions let you track and manage what's important to you, such as increasing uptime, controlling fuel costs, and getting the job done—safely and efficiently.

RUGGEDIZED TELEMATICS TECHNOLOGY

Geotab's fleet management devices let you access the insights and intelligence to keep your fleet powered up in the field. For offroad worksites, stay connected with your heavy equipment, yellow iron, vehicles, powered trailers, and assets with the GO RUGGED ruggedized telematics devices ideal for harsh conditions or external installation.

The GO RUGGED fleet tracking device is IP67-rated and offers LTE connectivity, so assets can be monitored in near real time. As an IoT hub, the device provides additional functionality through IOX Add-Ons and built-in features such as:

- Supports for most engine protocols
- Advanced GPS technology
- G-force monitoring
- Engine and battery health assessments

MYGEOTAB: REAL-TIME VISIBILITY

Geotab's open fleet management platform integrates with AEMP and third-party devices, which give fleet managers unparalleled flexibility and insight into tracking location, hours, fuel usage, idling, engine temperatures, pressures, and more. For IT, the platform reduces the hassle of working with multiple systems, as you can monitor and manage both your off-road and on-road assets together.

Stay up-to-date on your fleet and drivers with Geotab's interactive online fleet management dashboard. View key metrics on fleet and driver behavior at a single glance. Compare the safety of your drivers with the Driver Scorecard, and analyze productivity with the Idle Time chart and Activity Summary report. You can also add custom reports to manage fleet fuel consumption and other critical trends, in addition to organizing your reports with drag-anddrop and resize functionality.

ANALYZING YOUR TELEMATICS SOLUTION

To get the most out of your telematics platform it is important to develop a

telematics strategy. Ask: What is the number one goal to be achieved? Is it tracking the precise location of vehicles, increasing uptime, or combating theft? Put numbers to those goals so they can be measured. If available, use existing data as a benchmark to track progress.

Taking the time to identify the exact business problems to be solved will inform hardware and accessories decisions and make it easier to build the best fleet management solution. With Geotab's open and flexible platform you can do just that by selecting and configuring the features that match your fleet management goals.

Once initial goals are achieved, build on success by setting new targets based on data that matters and a telematics system you can trust.

ABOUT GEOTAB

Geotab is advancing security, connecting commercial vehicles and equipment to the internet, and providing web-based analytics to help customers better manage their fleets. Geotab's open platform and marketplace, offering hundreds of third-party solution options, allows both small and large businesses to automate operations by integrating vehicle data with their other data assets. Processing billions of data points a day, Geotab leverages data analytics and machine learning to help customers optimize fleets through the reduction of fuel consumption, enhance driver safety, and achieve strong compliance to regulatory changes. Geotab's products are represented and sold worldwide through Authorized Geotab Reseller.

Find out more, visit www.geotab.com/offroad.

MEET YOUR FLEET'S MOST VITAL ASSET

SORIS

BRINGING WORLD-LEADING EXPERTISE IN ON-ROAD TELEMATICS TO YOUR OFF-ROAD FLEET.

Whether you specialize in heavy equipment, lifts, or cranes, our IP67-rated GO RUGGED fleet tracking device can help you stay updated in real time with GPS technology, G-force monitoring, engine and battery health assessments, LTE connectivity,* and custom add-ons. In addition, our open platform integrates with AEMP and third-party devices. This gives you the unparalleled flexibility and insight needed to keep your mixed fleet safe, productive, and ahead of the competition.



Get started today. Visit Geotab.com/offroad

ISUZU COMMERCIAL TRUCK OF AMERICA, INC THE PROFESSIONALS' WORK TRUCK

day's contractors are always searching for ways to save time and money. Like a lot of businesses, they're looking for ways to be more efficient while increasing profits and maintaining a high level of customer satisfaction. That's quite a tall order and no mean feat.

That old adage, "What you see is what you get" still remains true. Professional services should be delivered to a customers' doorstep in a professional package, and often the truck is the first thing a customer notices upon arrival. That's just one of the many reasons Isuzu trucks are so popular. But Isuzu trucks aren't just about the physical, there are also a number of ways that an Isuzu truck saves time, maximizes labor, and generates additional revenue. Isuzu trucks are the full package.

TIME-SAVING

Ask anyone who has driven an Isuzu truck with its low cab forward design, and the first thing they will talk about is its great maneuverability and visibility. The turning radius and visibility is the best in class. Whether you are parking or making a tight turn, those time-consuming, three-point turns are less frequent. The maneuverability and visibility not only saves time but also lessens the chance of bumping into unseen objects, especially on a crowded construction site.

MAXIMIZE LABOR

First, our quality is among the best in the industry. Isuzu trucks are known for maximizing a driver's uptime, which keeps Isuzu trucks on the job and out of the repair shop. One



breakdown can cost a business a minimum of two to three hours of a crew's time and missed appointments. Secondly, our trucks are more capable than traditional trucks. When hauling equipment to the jobsite, our payload and body designs maximize the truck's capability. This keeps your crew from making multiple trips and from having to pull an unnecessary trailer.

REVENUE & PROFITABILITY

A professional appearance enhances your brand and loyalty among your customers while attracting new ones. Isuzu trucks are known for their professional appearance and with a customized body, show they are built strictly for use by professionals. Isuzu trucks are also well known for their low cost of ownership and residual value. Great fuel efficiency, superb quality, a robust warranty, a preventive service maintenance plan, and special financing keep operating expenses low and fixed. Knowing your monthly costs allows you to plan accordingly and save over the long term.



Find out more, visit www.isuzucv.com.

Wishing You a Happy & Healthy Holiday Season!

ISUZU

TRUCK



The #1 Selling LCF Truck in America Since 1986 www.Isuzucv.com





A DIESEL ENGINE AND A GAS ENGINE THAT IS ALSO CNG/LPG CAPABLE

COMMERCIAL TRUCK

ISUZU

TRUCK





MULTIPLE WHEELBASES ACCOMMODATE BODY CHOICES 10-30 FEET IN LENGTH

Vehicles shown with optional equipment; some equipment is dealer installed, Wehicles independent suppliers who manufacture such components to fouru's exacting standards. Morgan Corporation, Supreme and Thermotiong. If lease see your authorized Isozu/dealed © 2019 ISQUU COMMERCIAL TRUCK OF AMERICA, INC. are assembled from component parts manufactured by Isuzu Motors Limited and by for quality, performance and shfety. Truck bodies represented herein are products of for additional details.¹⁰

Link Manufacturing

n 2020, Link will celebrate 40 years of suspension engineering experience. In that time, the company has collaborated with some of the most respected OEMs in the industry. Its suspension solutions have been tailored to meet and exceed the requirements of the vocational marketplace, creating a legacy of some of the best performing, most reliable, and rugged heavy-duty suspensions systems in the world.

FULL LINE OF AUXILIARY SUSPENSIONS

"In 2019, Link introduced the newest member of its self-steer auxiliary suspension family," Bill Ott, vice president of engineering for Link Mfg., LTD, says. "With the unveiling of its new 20K suspension, the company met a strategic goal of consolidating its self-steer suspension roster of 8K, 10K, 13.5K, and 20K axles, establishing a highly uniform offering with unparalleled advantages."

Link's family of auxiliary axles now accommodates the broadest range of aftermarket applications, offering a self-steer auxiliary lift axle for virtually any truck.



PATENTED DESIGNS & INTELLIGENT ENGINEERING

Link's family of auxiliary suspensions is also very popular among bodybuilders and upfitters because of its patented Swift Mount technology. "Traditional auxiliary axle installation can routinely take six to eight hours of labor," Ott says. But, "Link's Swift Mount technology enables upfitters and bodybuilders to install one of its axles in one third the time."

Link's Swift Mount design uses a stepped-edge, on-the-frame bracket, offering installers a visual indicator to center the suspension on the truck. Comparing the frame bracket-tohanger location for both the driver and passenger sides, the suspension is easily centered.

The Swift Mount's interchangeable ride height brackets incorporate improvements in the way the frame brackets attach to the suspension hanger. The brackets can be used to mount any Link suspension, and by maintaining four sets in inventory, installers can be prepared for nearly any installation.

Rear air spring brackets are compatible with wide flange frame rails, accomplished by having the air fittings oriented to the outside. The air fittings can also be repositioned to the inside. The air springs can be removed and replaced without removing the bracket from the truck for servicing.

A bulkhead air control system is also available, fitting within each axle's compact mounting envelope. All air fittings are push-to-connect, and air tanks are designed to mount slightly above cross members for protection.

LOW MAINTENANCE & DURABLE

All Link self-steer auxiliary suspensions are equipped with rugged cast lift arms and Link-KOAT migratory self-healing metal treatment. Link-KOAT provides unparalleled corrosion resistance and rust protection, even when surfaces are exposed to excessive abrasion, harsh chemicals, and other severe-duty environmental factors. The 8K and 10K members of the auxiliary suspension family share the same hardware, feature heavy-duty bearings, and are designed for robust performance. To support its broad range of applications, Link also offers its 13.5K suspension with a premium disc brake package.

Link's auxiliary suspensions weigh in at approximately 6% less than comparable 8K, 10K, 13.5K, and 20K self-steer axles. Link also integrates industry-standard wheel end and brake components into its suspensions, boosting uptime by streamlining maintenance processes and inventory overhead.

LOOKING AHEAD

Link is close to completing its development of smart, load-balancing axles using its revolutionary new Road Optimized Innovations (ROI) technology. These revolutionary axles will sense and respond to changing conditions and maintain optimal tireto-ground pressure. They will also reduce tire wear and maximize gas mileage. Link's ROI will assess real-time load characteristics and automatically adjust the auxiliary suspension system.

ROI-endowed axles such as Link's new 8K, 10K, 13.5K, and 20K Self-Steer Auxiliary Axles will automatically adjust themselves based on a vehicle's movements and will not require manual retraction. Link's ROI technology will also sense the lack of traction and will retract until the needed surface friction is restored to drive axles.

"Link is on the cusp of changing the way fleets and operators understand the role of suspensions," Ott says. "And once we do, things will never be the same."

Find out more, visit www.linkmfg.com.



NEXT GENERATION OF AUXILIARY SUSPENSIONS

SUCCESS RUNS IN THE SELF STEER 8K, 10K, 13.5K, & 20K FAMILY



Meet the next generation of auxiliary suspensions. Link® lift axles are specifically designed to keep businesses like yours on the move and profitable. Our auxiliary suspensions enhance the performance, strength and uptime of work trucks and heavy-duty vocational vehicles. The self-steer family features an industry leading installation time, corrosion resistance, rugged cast lift arms, optional bulkhead air control, and standardized components. Our Self-Steer lift axles are available in 8K, 10K, 13.5K, and 20K capacities.



INSTALLATION

Patented interchangeable ride height mounting brackets make installation a breeze. The optional bulkhead air kit reduces overall installation time and features push to connect fittings.



DURABILITY

Cast lift arms come standard, improving structural durability, reducing wear, minimizing interference issues, and allowing for better lift and maneuverability.



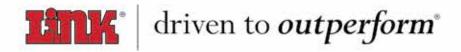
PROTECTION

Each suspension is coated with Link-KOAT[®] – a unique, migratory, self-healing metal treatment that provides corrosion resistance against damaging road chemicals and rust protection.



UPTIME

The Link[®] family of auxiliary suspensions utilizes industrystandard wheel end and brake components that simplify your maintenance process and inventory requirements.



NESTE WHY FLEETS ARE RACING TO MAKE THE SWITCH TO RENEWABLE DIESEL

S witching to a new type of fuel requires careful consideration. However, thanks to renewable diesel, it doesn't have to mean sacrifice. With powerful performance, cleaner emissions, and lower maintenance costs, Neste MY Renewable Diesel™ is driving fleet managers to think about renewable diesel in a whole new way.

NESTE MY RENEWABLE DIESEL

Neste MY Renewable Diesel is a premium drop-in fuel enabling fleets to significantly cut their carbon footprint and lower maintenance costs without sacrificing performance. It's made completely from renewable and sustainable raw materials, including wastes and residues from animal and fish fat, as well as used cooking oils and vegetable oils.

A consistently clear product with near-zero impurities, Neste MY Renewable Diesel can help reduce maintenance costs and increase vehicle reliability. It is a leading choice among fleet managers because of its edge in performance while clearly helping the environment.

THE BENEFITS

The innovative, premium drop-in fuel is significantly better for the environment than fossil diesel, yet it has nearly the same chemical composition. Every chemical component of renewable diesel is present in fossil diesel, meaning it delivers the same excellent performance and can be implemented in any diesel-powered vehicle without any change in infrastructure. Plus, this premium fuel meets all ASTM D975 and state and federal diesel specifications. From performance to sustainability, the benefits of renewable diesel are clear.

CLEAN BURNING MEANS POWER

With an exceptional cetane number averaging from 75 to 85, renewable diesel combusts more readily than fossil diesel, enabling engines to have better throttle response, start up quickly in cold conditions, and consume less fuel at low loads.

EASY CONVERSION

Since renewable diesel is nearly identical in chemical composition to fossil diesel, making the switch to renewable diesel requires no additional investment or modifications to vehicles, fuel systems, or fueldistribution infrastructures.

NO ODOR

Unlike fossil diesel, renewable diesel has absolutely no odor, making it less harmful for drivers, handlers, and the environment. Your drivers won't be inhaling harmful fumes all day or going home smelling like diesel.

LOWER GREENHOUSE GAS EMISSIONS

(accessed November 25, 2019)

Renewable diesel significantly reduces greenhouse gas emissions—including fine particulates, hydrocarbons, carbon monoxide, and nitrogen oxide emissions—compared to fossil diesel¹. In fact, filling a truck with renewable diesel over a period of just one year is equivalent to taking two to three cars off the road².

REDUCED MAINTENANCE COSTS

Fossil diesel contains aromatics and impurities that contaminate oil, foul fuel injectors, and clog diesel particulate filters. Renewable diesel contains no impurities, which enables vehicles to run more efficiently and lowers routine maintenance costs.

CAN BE USED AND STORED IN COLD CONDITIONS

Neste MY Renewable Diesel is made for cold, even arctic, conditions. Since its properties are identical to those of high-quality fossil diesel, drivers can be confident their vehicles will run even in the dead of winter.

ABOUT NESTE

Neste is the world's largest producer of renewable diesel refined from waste and residues. The company creates sustainable solutions for transport, business, and consumer needs. Its renewable products, such as Neste MY Renewable Diesel, enable customers to reduce emissions.

Find out more, visit www.nestemy.com/performance.

The clarity of Neste MY as compared to 10 random fossil diesel samples collected in California.



¹Neste Corporation, "What is the difference between renewable diesel and traditional biodiesel—if any?" September 26, 2016, Neste.com, <u>https://www.neste.com/en/what-difference-between-renewable-diesel-and-traditional-biodiesel-if-any</u> (accessed November 25, 2019). ²Neste Corporation, "Sustainability is Part of Our DNA," Impact Calculator, <u>https://www.neste.us/serious-sustainability</u>

MODERN WORKTRUCK SOLUTIONS WWW.MWSMAG.COM DECEMBER 2019

CLEAR PERFORMANCE FROM A CLEAR DIESEL.

With a high cetane number, lack of impurities and no aromatics, Neste MY Renewable Diesel[™] provides clean, efficient combustion. Giving your fleet powerful performance, quieter operation and lower maintenance costs. Learn more at **nesteMY.com/performance**





Phillips 66 KEEPING THE WORLD RUNNING SMOOTHLY

t Phillips 66[®] Lubricants, we pride ourselves on our history of innovation, which drives us toward the future of modern lubricant formulations. Over the last decade, the heavy-duty industry has undergone some major shifts intended to ease wear on equipment, the environment, and ultimately your bottom line. Because more viscous oils like 15W-40 require more power to cycle through the engine, which requires higher fuel consumption, the industry is moving toward lower viscosity oils such as 10W-30 or 5W-30. However, a common concern among fleets has been whether these oils protect as well as higher viscosity oils. That's why Phillips 66 Lubricants formulated Guardol FE® 10W-30 and Triton® FE 5W-30they not only address new industry standards, but they also provide the outstanding wear protection you need for your equipment, plus the improved fuel economy you can only get with FA-4 oils. Guardol FE improves fuel economy by 1.5% in Class 7-8 fleets while also beating industry and competitor wear protection standards. And for fleets ready to dive into the future of lower viscosity engine oil, Triton FE 5W-30 has been proven to deliver up to 3% fuel savings in medium-duty fleets. Along with Guardol FE and Triton FE, Phillips 66 offers a full line of lubricants for your heavy-duty equipment.

FEATURED PRODUCTS GUARDOL FE 10W-30

Phillips 66 Guardol FE (Fuel Economy) Diesel Engine Oil with Liquid Titanium® protection additive is a premium quality, part-synthetic API FA-4 engine oil developed for fuel economy benefits.

Applications:

- On-highway diesel trucks where additional fuel savings are desired
- 2010 and newer Detroit Diesel engines¹
- 2014 and newer Cummins, PACCAR, Navistar, Volvo/Mack engines¹

Licensed or OEM-certified for:

- API Service FA-4
- Cummins CES 20087
- Detroit Diesel 93K223

TRITON FE 5W-30

Phillips 66 Triton FE (Fuel Economy) Diesel Engine Oil is a premium quality, full-synthetic API FA-4 engine oil developed for fuel economy benefits in 2017 and newer engines where FA-4 is specified. Triton FE is formulated with the highest quality synthetic base stocks and a proprietary low-SAPS additive package to provide outstanding engine protection in diesel engines specifying FA-4. This additive enhancement provides increased engine protection of critical engine parts, despite lower HTHS requirements of FA-4.

Applications:

• On-highway diesel trucks recommending FA-4 to meet 2017 emissions standards • Mixed fleets with diesel and gasoline fueled vehicles

Licensed or OEM-certified for:

- API Service FA-4
- Cummins CES 20087
- Detroit Diesel 93K223

OMNIGUARD® GREASE

Phillips 66 Omniguard 220 is a high performance, semi-synthetic, multipurpose, extreme pressure (EP), corrosion preventive grease specially developed for use in industrial and automotive equipment operating in wet or corrosive environments. It is recommended for equipment exposed to water contamination, saltwater corrosion, and/or high temperatures

Applications:

- Industrial and automotive equipment operating at high temperatures and exposed to water contamination, high humidity, or corrosive environmental conditions
- Centralized lube systems and auto-lubers in service shops
- Marine equipment, heavy mobile equipment, and cables exposed to salt water
- Paper machine wet- and dry-end bearings and hot calender stacks
- Rolling mills, hot roll tables, continuous casters, ingot buggies, and slab mills
- Steel mill roller bearings, conveyors, and gears

Find out more, visit www.phillips66lubricants.com or call 877.445.9198.

¹Based on extensive field testing, Phillips 66 has extended its Limited Product Warranty to cover the use of FA-4 in these engines for on-highway use. Volvo/Mack owners should inquire about specific conditions that may cause temporary low oil pressure.



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1.5% Fuel Savings vs. 15W-40 in Class 7-8 Trucks

6.45x Longer Wear Protection than Mobil Delvac Extreme FE'

engine oil, you choose greater fuel efficiency without

LowerViscoCity.com

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PPG'S COMMERCIAL COATINGS HAVE IT COVERED IN TECHNOLOGY, COLOR, AND SERVICE

PG is a leading innovator of coating technologies for just about every industry imaginable with a wealth of coatings options available for work trucks. The applications range from heavy-duty trucks and custom truck bodies to transit vehicles, trailers, fire, and emergency, as well as equipment for the agricultural, construction, and gas exploration industries.

PROVEN TECHNOLOGY FOR DIVERSE NEEDS

PPG's full range of coatings technologies includes polyurethanes, alkyds, epoxies, polyurea, powder coatings, and pre-treatments. Coatings are marketed under several brand names—each offering products and price points geared for specific market segment requirements:

- DELFLEET ONE[™] premium paint system delivers excellent color matching, durability, and ease of use, while offering the industry's lowest VOC ratings for undercoat and topcoat products. Available with five- and seven-year warranty options.
- DELFLEET® EVOLUTION premium paint system offers an excellent choice of topcoat systems to meet specific requirements with three-, five-, and seven-year warranty options.
- DELFLEET ESSENTIAL[®] compact, value-driven paint system is easy to use and cost effective, available in two- and three-year warranties.
- COMMERCIAL PERFORMANCE COATINGS offer a full breadth of technologies for specialized equipment and manufacturing uses—from economical alkyds and



epoxies to urethanes, waterborne, and powder coatings.

 AMERCOAT[®] line of heavy-duty protective coatings includes tank linings, zinc-rich primers, epoxy primers, and other durable finishes.

SPECIAL REQUIREMENT SOLUTIONS

PPG offers many specialty coatings options, ranging from those having unique performance properties to environmentally progressive, ultra-low VOC solutions. Among the options are specialty coatings for enhanced graffiti resistance, sound dampening, and the latest advancements in corrosion and chemical resistant technologies.

COLOR MATCHING TOOLS

PPG's comprehensive color database offers hundreds of thousands of formulas, covering a full spectrum of solid, metallic, pearl, and specialty colors. Color matching tools include the *Delfleet One* color chip deck; specialized color chip selectors for fleet vehicles, Class 6 through 8 OEMs, RAL, and market-specific colors. Formula look-up options range from online access to a full-blown, computerized paint management system—as well as an advanced spectrophotometer for matching difficult, unknown colors.

TRAINING & DEVELOPMENT

Dedicated PPG instructors teach training courses throughout the year at PPG Business Development Centers. Course topics include technician certification, spot repair, and color tinting, blending, and spray equipment for commercial use. And PPG's MVP Business Solutions program offers a comprehensive array of management training for businesses using PPG commercial coatings systems. The program provides business owners and managers with ideas, methodologies, and expert guidance for improving productivity and profitability.

SERVICE & SUPPORT

The core of PPG's commitment to customer support lies in its team of field commercial sales representatives, OEM specialists, and a network of some 500 US and Canadian distributors offering personalized service, technical support, and color matching assistance.

Find out more, visit www.ppgcommercialcoatings.com.

ALL FOR ONE ONE FOR ALL

Color match in the aftermarket shouldn't be an afterthought

Introducing the all-new Delfleet One[™] paint system. Get the whole story at DelfleetOne.com.



Ranger Design

LET RANGER DESIGN HELP YOU FIND THE RIGHT UPFIT PACKAGE FOR YOUR TRADE

THE BASIC CONTRACTOR UPFIT PACKAGE

The Ranger Design Basic Contractor upfit package is an economical steel package that can help address your needs. Usually bought by small businesses, it is the most costeffective solution available. The wide shelves offer the perfect storage space for large items, and the swing-door partition (for high-roof vans) allows direct access into the cargo space without having to exit the vehicle.

It is tough and economical, yet it still offers you the most important features of an upfit—storage and driver protection. This upfit also allows you to add any accessories or other features you may need.

THE SERVICE UPFIT PACKAGE

Like the contractor upfit package, the Service Package is also basic but comes equipped with some extra accessories, such as bins, shelf dividers, and drawers.

Built for tradesmen in the service industry, it is a standard

upfit package that is accessorized to help maximize organization. The shelf dividers ensure that your equipment is not thrown helter-skelter onto the shelves and the extra bins allow you to carry your tools with you directly onto the jobsite. Some tradesmen in

the service industry tend to have more expensive equipment, which is why the lockable drawer units come in handy.

THE ELECTRICAL UPFIT PACKAGE

This Ranger Design upfit package was designed specifically for electricians with accessories such as reel and paper holders and shelving doors.

The layout of the shelves and accessories allow electricians quick and easy access to their most used tools. The reel holder is a good way to save time by retrieving your spools quickly. Instead of sliding around the van, they are held securely in an area that is within reach from the ground. Similarly, the five-slot paper holder keeps the endless paperwork neatly in one spot. For larger tools, our aluminum shelving doors keep them from falling off the shelves on bumpy roads.

THE HVAC UPFIT PACKAGE

The HVAC upfit package is great for tradesmen in the plumbing, air conditioning, or refrigeration industry as their



equipment can often be quite heavy. This package arranges your cargo space in a way that makes gathering your tools as stress-free as possible.

The best features of the HVAC package are the bottle holders. Installed directly inside of the back and side doors, it means you do not have to enter the van to retrieve your bottles. This eliminates the chance of falling while trying to climb out with an armload of heavy tanks. The holders also keep the tanks strapped in securely, as it would be extremely dangerous to have them roll free while driving.

THE DELIVERY UPFIT PACKAGE

The Ranger Design Delivery upfit is an innovative solution to increase efficiency on the job. Built exclusively for delivery vehicles, the fold-away upfit package is a great way to help you get through the day faster and more efficiently.

> It is perfect for transporting mail and large postal packages. Small items can be stacked on the top shelves, while the bottom shelves can fold back against the wall to make room for big boxes and pallets and vice versa. It means more items can fit in the van, increasing the

amount of deliveries in the course of one day.

THE ALUMINUM UPFIT PACKAGE

The Ranger Design Aluminum packages are the highest quality upfit packages on the market and may even outlast the life of your van.

They are designed for tradesman who are looking to spend the money on a top quality upfit that will last them up to 10 years or more. Apart from lasting longer, the other main benefit of the Aluminum upfit package is its weight savings. It is about 2-1/2-times lighter than steel, which helps with fuel savings as well as reducing the maintenance and repair fees that come with a heavily overloaded vehicle. Aluminum upfits are a way to increase payload without sacrificing quality.

At Ranger Design, our goal is to help you find the best solutions for your needs!

Find out more, visit www.rangerdesign.com.



RANGER DESIGN PACKAGES SPECIFICALLA FOR YOUR TR

Customize your vehicle with our wide range of options.

- > Optimized for maximum productivity
- > Durability that will outlast your van
- Ergonomic design that reduces injuries



Try our 3D Configurator tool for easy commercial van upfitting

CONTACT US cs@rangerdesign.com / 1-800-565-5321 / rangerdesign.com



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Timbren Industries Alternatives in Rubber Spring Technology

Timbren Industries began with the premise that suspensions could and should work better. Founder Arnold Heron decided to take a completely different approach. In 1968 Timbren introduced Aeon® hollow rubber springs to the North American market—a suspension product made of natural rubber.

Once word got out that there was an alternative to conventional springs, it didn't take long for Aeon® hollow rubber springs to catch on. For over 50 years, Timbren Industries has continued to grow and remain financially strong. Here's why...

A BETTER PRODUCT

Initially, Timbren focused on the heavy-duty market. Some big rigs had a recurring problem with broken springs on their heavy-duty trailers. The solution turned out to be Aeon[®] hollow rubber springs.

The dedicated few who worked at Timbren Industries in the early days felt confident that these rubber springs could and should also be introduced to the light-duty market. It soon became obvious that just about everyone who owned a pickup truck, van, and SUV needed a helper spring that stabilized the vehicle and improved ride quality.

In an effort to fit both front and rear applications of virtually every work truck on the road, Timbren's commitment to offer the world a better suspension resulted in well over 450 application designs. These kits became known as Timbren SES, i.e. the "Suspension Enhancement System."

There is no such thing as "onesize-fits-all" when searching for a Timbren SES product. All of the 450plus upgrade kits reflect a careful combination of the best components for each application, ranging from halfton pickups to Class 8 vehicles. Timbren SES kits supply suspension solutions for the snowplow industry, towing and rescue vehicles, delivery vans, as well as heavy duty vehicles used in mining, forestry, and agriculture.

QUALITY

While the company continued to expand, Timbren Industries eventually caught the interest of larger distributors and OEM companies. It soon became clear that it was time to play in a much bigger sand box. And in 1998 Timbren made the financial commitment to become ISO 9001 registered.

As a result, Timbren Industries remains committed to a Quality Management System that complies with the requirements of ISO 9001:2015. The commitment to quality spills over into every department: research and development, engineering, sales and marketing, customer service, and production.

INNOVATIVE IDEAS

Timbren also developed suspensions for light-duty trailers. Each new proprietary design is thoroughly scrutinized and sent to the General Motors Automotive Center for Excellence (ACE) at the University of Ontario for further testing. Timbren's focus is always on strength, stability, and ride quality.

The design of the award-winning Axle-Less suspension provides a solution for trailers that need to maintain an exceptionally smooth ride over rough terrain. Because it has no axle, you can take it anywhere.

Similarly, the Silent Ride suspension outperforms the torsion axle with strength and stability while providing a ride so smooth that you'd think it was an air suspension. The tandem model delivers a fully equalized



experience, meaning that all four wheels are on the ground at all times.

After many years of continuous experimentation and innovation, the dedicated people at Timbren have gained a thorough understanding of the dynamic characteristics and properties of rubber.

'OUTSIDE THE BOX'

Ever since Timbren's humble beginnings, the company has grown to a team of experts committed to offer the world a constellation of quality suspension products at a reasonable price.

Aeon® hollow rubber springs are the heart and soul of every Timbren SES product, reducing road shock and keeping your work truck level and stable. That's why these helper springs protect your suspension even when fully loaded.

Timbren's customer service representatives are standing by to answer your questions and help you find solutions to your suspension problems. For every SES product, Timbren still offers two of the best warranties in the industry: lifetime warranty and customer satisfaction guarantee.

Join the quiet revolution in rubber spring technology. Visit Timbren's new website and discover for yourself how simple and easy it is to find a solution for all your suspension challenges.

> Find out more, visit www.timbren.com or call 800.263.3113.



Timbren SES kits are designed to keep the vehicle level at all times and prevent roll and sway. The Aeon® rubber springs found in every Timbren SES kit have a progressive spring rate which means you are guaranteed a soft, comfortable ride at all times.

THE RIGHT GEAR FOR HANDLING THE TOUGH STUFF













DMBBEN



Better Ride Quality

Added Stability

Easy Installation





Lifetime Warranty

TOWING

Don't despair if the rear suspension of your tow vehicle drops to the ground when you hook up your trailer. Timbren SES kits prevent suspension sag, eliminate body roll and control sway.



SNOWPLOWING

Frustrated when you lift your plow and the front end of your truck droops? Do what the pros do: Level out your truck by installing a Timbren SES kit. Not only that, you'll increase drive axle traction on the rear.





Your work truck's suspension takes a major beating under the stress of heavy loads. Keep your vehicle out of the repair shop and at the job site by protecting your suspenison with a Timbren SES kit



UMAC AIR INNOVATED



MAC is the leader in compressed air innovation™, known in the industry for designing and manufacturing the most innovative mobile air compressors and multipower solutions available. VMAC is best known for its UNDERHOOD[™] air compressors that are mounted within the engine compartment of trucks and commercial vans. However, VMAC also has an expansive line of underdeck and above-deck air compressors that includes direct-transmission mounted PTO-driven air compressors as well as gas, diesel, and hydraulic driven air compressors. VMAC also manufactures a line of multi-power systems, including the customizable 6-in-1 Multifunction Power System that can be configured to include a rotary screw air compressor, generator, welder, battery booster/ charger, cold climate kit, and PTO with optional hydraulic pump. The VMAC Multifunction is available with a Kubota or Cat[®] diesel engine.

FOR CAT DEALERS

Finning is the world's largest Cat dealer, and one of VMAC's most long-term and valued partners. With a relationship spanning over 20 years, Finning influenced many of VMAC's product development and innovation initiatives.

In 2016, Finning came to VMAC with a request to create a variation of the 6-in-1 Multifunction Power System with a Cat engine. The request to transition to a Cat powered multi-power system just made sense—Finning mechanics are used to servicing Caterpillar heavy equipment customers, and this familiarity makes equipment powered by a Cat engine favorable over competing engine brands.

Finning also asked VMAC to create a quieter machine. Reducing noise on the jobsite was important, as it not only protects the hearing of Finning's mechanics, but it also makes for a safer jobsite.

During the development process, VMAC worked with Caterpillar's engineering team to select an engine that would meet the requirements and specifications of the new 6-in-1 Multifunction Power System with Cat engine. The Cat C1.1 EU Stage V/ US EPA Tier 4 Final Industrial Engine was selected.

Once the Cat C1.1 Industrial Engine was selected, VMAC's team of mechanical and electrical engineers continued the development process. The first prototype unit was sent to Finning just months after the first request. In 2018 the VMAC 6-in-1 Multifunction Power System—Cat Power was released exclusively to Finning, due to the high demand for Cat engines. However, in fall of 2019, VMAC was able to increase inventory and release the 6-in-1 Multifunction Power System—Cat Power to all North American customers.

"The new VMAC Multifunction—Cat Power proves VMAC's commitment to innovating our air compressors and multi-power systems and collaborating with our partners to meet their changing demands," Mike Pettigrew, VMAC's marketing manager, says. "We are excited that we've now secured our Cat engine inventory to allow us to launch this system to fleets across North America."

CAT POWER

There are many benefits to the VMAC Multifunction Power System:

 Six Power Sources, One Quiet Machine VMAC's 6-in-1 Multifunction Power System includes a 45 CFM rotary screw air compressor, 8 kW continuous AC generator, 250 A DC welder (adjustable), 300 A (max) @ 13 V booster, 12- to 48-V battery charger (adjustable), 2,800 rpm power take-off port with optional hydraulic pump, and a factoryinstalled cold climate kit—120 V, tested to -40 degrees F. The Cat C1.1 diesel engine uses lower engine speeds, making it six decibels quieter than other all-inone type systems.

• Save Truck Maintenance and Fuel Costs The VMAC

Multifunction—Cat Power allows operators to turn off their truck engine while working on the jobsite, reducing truck engine hours and fuel usage. In addition, the control system automatically idles the system's Cat engine up/down, and turns it off/ on with air demand, saving operators fuel.

- Infrequent and Easy Servicing The Cat C1.1 Industrial Engine only needs to be serviced every 500 hours of operation. This service interval is lengthy when compared to typical 100 to 200 hour service recommendations from other competitive industrial engine manufacturers. The system is also easy to service due to single-side servicing.
- Reduce Vehicle GVW Weighing just 710 lbs, the VMAC Multifunction—Cat Power is lighter than comparable brands and saves hundreds of pounds compared to having multiple systems on the vehicle.

Find out more, visit www.vmacair.com/mf-cat.

6-IN-1 POWER SYSTEM: CAT[®] POWER. VMAC INNOVATION.



45 CFM ROTARY SCREW AIR COMPRESSOR CAT[®] C1.1 INDUSTRIAL P DIESEL ENGINE



8KW AC GENERATOR 250A DC WELDER 300A MAX @ 13V BATTERY BOOSTER 12-48V BATTERY CHARGER CLUTCHED PTO PORT WITH OPTIONAL HYDRAULIC PUMP

- 6 POWER SOURCES, ONE QUIET MACHINE
- REDUCE VEHICLE GVW BY UP TO 400 LB
- FREE UP TO 6 CUBIC FEET OF DECK SPACE
- SAVE TRUCK MAINTENANCE & FUEL COSTS

NOW AVAILABLE!

ORDER NOW: 1-877-912-6605 GET THE SPECS: VMACAIR.com/MF-CAT





AIMS Power

THE LARGEST AND MOST RELIABLE POWER INVERTER SELECTION AVAILABLE

IMS Power has manufactured DC to AC power inverters, batteries, and solar products for over 20 years. AIMS Power leads the industry with its current portfolio of over 250 products, servicing hundreds of industries. The full line of lowfrequency inverter chargers can meet industrial-grade needs of 12-, 24-, and 48-V applications at competitive consumer price points without compromising product quality. AIMS also introduced a line of modified sine inverters boasting 8-, 10-, 12-, and 50-kilowatt models, a range of ETL-certified power inverters that Conform to UL 458/1741 and 1012 standards, and a range of European inverters.

AIMS Power's newest product line to hit the market is the powerful 24-V and 48-V lithium battery packs, replacing multiple battery pack applications with just one beast of a battery. One AIMS Power lithium battery can replace up to 12 100-amp batteries! That's huge savings over time and less labor.

CUSTOMER-DRIVEN SUCCESS

AIMS Power's success is driven by user experience and feedback, implementing changes quicker than its competitors. That means balancing the variety of power devices on the market with weight and performance considerations so that customers can find the inverter and power solution that best suits their usage.

Thanks to this insight from loyal customers and an awareness of demands for greener energy systems, AIMS Power is able to expand its product range even further. AIMS Power now stocks portable solar panels, MPPT charge controllers, deep-cycle batteries, and prewired portable power boxes. A true one-stop solution for portable, back up, and off-grid power needs.

Find out more, visit www.aimscorp.net.



BACKRACK™

DON'T DRILL HOLES IN YOUR PICKUP TRUCK: MOUNT STROBES AND OTHER ACCESSORIES WITH BACKRACK[™]'S ENGINEERED BOLT-ON SOLUTIONS

N obody wants to take a drill to a brand new truck. While trucks have evolved, some of BACKRACK™'s competitors' offerings still require you to drill holes through the sheet metal to install products. BACKRACK™ Cab Guards and Siderails are engineered to use existing holes in the truck bed to securely attach its products. The company's hardware is truck-specific, guaranteeing a perfect fit every time.

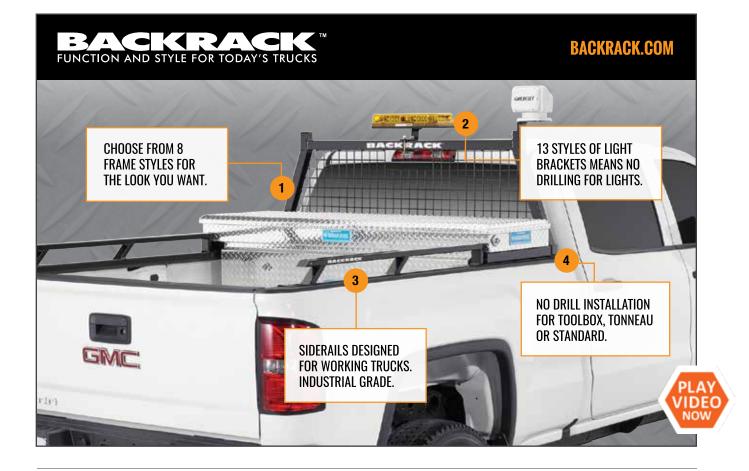
The new Ford F-150 has an aluminium bed. When steel and aluminum meet, corrosion naturally occurs. BACKRACK™ has engineered its Cab Guards for the new F-150 to keep the metals separate and avoid any drilling of holes. If you require strobe lights or any other auxiliary accessory, BACKRACK[™] offers a complete line of accessories that simply bolt or clamp to its Cab Guards. Again, no holes need to be drilled through the cab, headliner, or truck bed.

Tonneau covers are the most popular accessory on trucks today. BACKRACK™ Cab Guards are compatible with select, topselling tonneau covers with its accessory adaptor.

BACKRACK[™] offers eight unique styles of Cab Guards, allowing you the flexibility to achieve the look you want for your truck. All BACKRACK[™] products are manufactured in North America. Outsourcing jobs and cutting corners on quality is not part of BACKRACK™'s culture.

BACKRACK[™] products provide commercial truck owners and fleets with off-the-shelf, truck-specific solutions that will put your trucks on the job quickly and easily. Warehoused throughout North America, BACKRACK[™]'s products are always just a few days away from installation. ●

For descriptive product videos and complete product information, visit www.backrack.com.



BOLT A ONE-FOR-ALL SOLUTION

B OLT® Locks are integrated by many of the major truck cap and tonneau cover manufacturers throughout the industry as a result of its "Breakthrough One-Key Lock Technology" as the ultimate in lock convenience. ARE, Leer, SnugTop, Royal Truck Body, and other manufacturers are now incorporating BOLT Lock technology into their products.

Designed to reduce key clutter using only the vehicle's ignition key in all of the locks produced by the company, BOLT Locks are permanently programmed upon the first insertion of the ignition key into the lock. Drivers can feel secure knowing that the locks include anti-pick technology and can only be unlocked by their



vehicle's ignition key, protecting the contents inside the truck bed.

BENEFICIAL

Commercial truck drivers or contractors who use their trucks to transport and store their equipment benefit from BOLT Locks because they ensure that the equipment is safe when parked on company property or on-site, as well as at any stop between destinations. Trucks, caps, padlocks, and trailer locks can all be unlocked using the same key that unlocks the truck door and starts the truck's engine. All BOLT Locks feature a limited lifetime warranty and are manufactured with an electroless nickel-plated carbon steel pin or shaft assembly/shield for strength and durability and include an automotivegrade stainless steel lock shutter, a durable, protective rubber shell, and a six-plate tumbler sidebar that prevents picking and bumping.

Find out more, visit www.boltlock.com.



CURT LEADING INNOVATION IN THE TOWING INDUSTRY

C URT, a CURT Group brand, offers a complete line of towing products and is the leading manufacturer of USA-made, customfit trailer hitches.

We offer the broadest selection of custom-fit receiver hitches for nearly every vehicle on the road today. We also offer gooseneck, fifth wheel, and weight distribution hitches, as well as electrical components, ball mounts, trailer balls, cargo carriers, bike racks, and other towing accessories.

For everything from passenger cars and vans to full-size pickups and SUVs, CURT is "The First Name in Towing Products."

One of our key focuses at CURT is innovation—leading the industry

with new technologies and services that give our customers a competitive advantage and ultimately provide the end user with greater value.

REBELLION™ XD

The latest product to be released from our Innovation Center is the Rebellion™ XD adjustable cushion hitch ball mount with ShockDrop™ technology.

ShockDrop™ is an adaptive, dynamic towing system that is engineered to provide a more comfortable, controlled, confident towing experience. It uses a cushion isolator to suppress vibrations, strain on the vehicle, and increases driver control. The Rebellion[™] XD leads the way in our ShockDrop[™] series. It is an adjustable cushion hitch that enhances control and comfort without the complicated design of competitive options. Rebellion[™] XD is highly effective, thoroughly tested, and virtually maintenance free.

We also offer our RockerBall[™]—a cushion hitch trailer ball that can be retrofitted onto any existing ball mount with a 2-1/2-inch tongue. ●



Find out more, visit www.curtmfg.com.

S CURT

REBELLION[™] XD CUSHION BALL MOUNT

For increased comfort and equipment longevity, the new Rebellion[™] XD cushion ball mount dynamically reduces jerking and jarring while towing.

- ShockDrop[™] isolator minimizes stress on vehicle's suspension and brakes
- Adjustable height and rated for 15,000 lbs.



GO Industries, Inc. TRUCK ACCESSORIES

G o Industries, Inc. manufactures a range of products for pickup trucks including the below:

Big Tex Grille Guard™ is a 2-inch chrome grille guard. Its design, heavy outside welds, and giant size result in a grille guard that won't bend, flex, or vibrate when in use. All applications include easy, no-drill, frame-mount installation, and tow hooks are retained on all applications.

Rancher Grille Guard[™] gives total protection anywhere you take it. This one-piece, fully welded grille guard provides the maximum front end protection from road debris and off-road brush.

Winch System Grille Guard is

designed for durability and provides a base for other options. This modularstyle grille guard can be used alone or with brush guards to protect the headlight area and a winch carrier designed to meet the requirements for your winch operation.

Pro Series—Winch Bumper

Replacement is a one-piece, fully welded grille guard. This unit features heavy-duty brackets and a no-drill installation, accommodates major brands of winches, and offers a higher ground clearance than other brands. Ultimate Armor coating provides resistance to dings and scratches.

Lastly, a **Medium Duty C4500-C6500** folding grille guard comes with or without a winch carrier. Other accessories include headache racks, air-flow tailgates, mud flaps and mud flap accessories, dually simulators, truck light bars, Sport Bars™ (steps), and Rancher Rugged Steps™. ●



Hannay Reels custom reel solutions

or 85 years, Hannay Reels has served as the leading manufacturer of custom hose and cable reels for the work truck industry. With more than 3,800 reel models, Hannay Reels delivers highquality, low-maintenance custom reel solutions for a variety of applications.

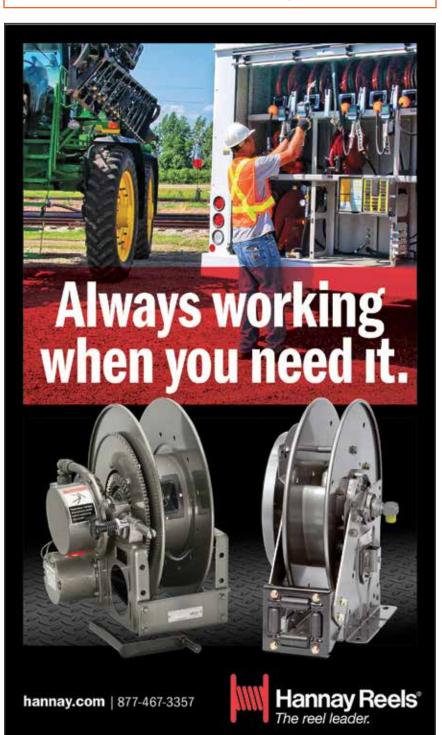
Every Hannay reel is custom designed and constructed with high quality material offerings like heavy-gauge steel or stainless steel. These reels are built to withstand the demanding conditions of the road, coming equipped with features such as ribbed discs and dual bearings. The sturdy build of a Hannay reel ensures extreme durability that outlasts the competition, saving customers money. Hannay makes part replacement simple. That means longer life spans for every reel and less money out of your pocket.

Hose and cable reels from Hannay are highly adaptable, serving a wide variety of work truck operations including:

- Maintenance bay dispensing grease, oil, water, antifreeze, DEF fill-up, petroleum, and more
- Hydraulic/pneumatic power tools
- Service/lubrication hose for heavy construction equipment
- Electric cable for lights and tools, engine warm-up, battery charging
- Gas/arc welding
- Washdown/pressure washing
- Vacuum/suction
- Exhaust hose

Based out of Westerlo, New York, Hannay stores large quantities of high quality raw materials and parts in its 2,000,000-sq-ft facility, allowing the company to build and deliver reels without delay. Everyone in Hannay's on-site sales group has experience in building reels, so they can respond to your needs efficiently and accurately. All reels are built to order.

Find out more, visit www.hannay.com.



TECNIQ THE NEW STANDARD FOR WORK TRUCKS AND FLEET LIGHTING

ecNiq LED Lighting Solutions are the new standard for work trucks and fleet lighting. TecNiq begins with a simple belief that we can offer our customers the greatest value, the highest quality LED lights, and custom solutions with the best customer care in the industry. From individual owner operators' to large scale fleets, TecNiq provides consistent, reliable LED performance. This is the commitment that drives every aspect of our business and why we offer the industry's leading lifetime warranty.

TecNig started in 2004 to create a more efficient and cost saving LED product. Engineer-owned and operated, Jeff Condon and Mark Pruss envisioned a company that could use today's technologies to create new lens design methods. These innovative technologies allow the projection and distribution of highly controlled light patterns and even images directly from our lamps. Our products incorporate marine grade passivated stainless steels, automotive grade polycarbonates, and polyurethane sealed circuit boards. We source high grade materials and LEDs so that our customers can be reassured they are getting the highest quality LED products on the market.

ALL ABOUT THE PROCESS

Traditionally customers don't notice the differences in lighting until they stop working. Our goal is to not only keep your lights up and running, but also to provide custom lighting options that fit the needs of your vehicles and fleet. TecNiq's custom lighting capabilities span from our 3D printing capabilities to our in-house plastic injection molding machines. In 2019, TecNiq added five new Toshiba injection molding machines, a Corona Etching processor, and a PCB assembly line—all at our Galesburg, Michigan, facility. We start out our custom solutions by asking the critical questions, making sure the functionality, size, and basic needs are met. From there, we dive into the aesthetics of your product—making sure that we match the style and brand that you have worked hard to build. Next we produce drawings, 3D renderings, and functioning 3D prototypes to assure that your light will work and perform as you need. Then we test the lights far beyond federal regulations. The end result is a finished piece that complements your vehicles and sets you apart from your competition in both style and function. At TecNiq we take our customers' success just as seriously as we do the products that we make. We do this by focusing our efforts on continuous improvements in customer care, ontime shipping, and providing state-ofthe-art manufacturing facilities. Our goal is 100% satisfaction with not only our products but also our customer support and service.

The highest quality materials designed, engineered, and assembled in the US—and a commitment to great customer service. Expect more from your lighting provider, get more from TecNiq, Inc.—The New Standard in LED lighting.

Find out more, visit www.tecniginc.com.



H&H Sales Company, Inc

Since 1951, H & H Sales Company, Inc has built its business in the manufacturing of high-quality truck bodies and equipment to the commercial vehicle and high-pressure gas industries. H & H builds custom service, crane, and cylinder bodies to meet the needs of the oil, gas, construction, utilities, HVAC industries, government, and municipalities.



No corners cut, no details overlooked.

H & H can build to customer specifications or modify standard built units to meet the customer's needs. H & H sells nationwide and has a Ford Commercial pool account for F-Super Duty pickup, chassis, and Transit cargo vans. H & H also has direct buying for all other vehicle makes.

Find out more, visit www.hhsalescompany.com.

WHY RISK YOUR FIRST-CLASS IMAGE WITH SECOND-RATE EQUIPMENT?

You've worked too hard earning your customers' trust to have unpredictable equipment performance trip you up. Nobody understands that like H&H.

Our custom truck bodies are designed with field work in mind. We build them one at a time from the most rugged, high-quality materials and components available. No corners cut, no details overlooked.

As a result, an H&H truck body won't let you down on the job. You get efficient, affordable, dependable performance, year after year, so your customers get the prompt, effective service they expect — every time.



RazerLift

Welcome to the safety revolution. As work vehicles get taller and the workforce ages, accessing rooftop cargo is no longer merely an inconvenience, it is a widely recognized hazard. Back and shoulder injuries are a very real risk due to overhead reaching, pushing, and pulling multiple times each day. Not to mention worker frustration and inefficiency. The industry has tolerated this hazard only because no alternative solution existed. Until now.

The patented RazerLift provides chest-level access to vehicle roof-top cargo with the push of a button. The powered and automated system effortlessly lowers rooftop cargo below shoulder height for ergonomically superior loading and unloading. The cargo agnostic system accommodates more than just ladders; you can store a wide array of awkward cargo on the roof of your vehicle.

Let us help you reduce the risk of workplace injury by eliminating the overhead reaching, pushing, and pulling associated with bringing your cargo down to a user-friendly height.

Find out more, visit www.razerlift.com.



Step-N-Secure Pickup truck bed handle and tiedown Post accessory

A rugged, cost-effective product offers a hand up for your pickup, increasing safety when stepping onto your truck bed and security when tying down cargo.

Step-N-Secure[®]'s economical pickup truck accessory adds simple safety and security features to the bed of all Ford, GM, Dodge, Toyota, and Jeep Gladiator pickups.

This patented product installs into the truck bed stake hole, giving users a dual-purpose handle for stepping into the bed of their truck and a tie-down for securing cargo loads.

Developed for the vocational pickup truck market, users enjoy improved entry/exit ergonomics and OSHA three-point contact.

Step-N-Secure is manufactured in the United States from injection-molded glass strand fiber reinforced polypropylene that is designed for durability and corrosion resistance.

The handle kit is an easy DIY install. MSRP of \$29.99. Wholesale, jobber, and fleet pricing available.

Find out more, visit www.stepnsecure.com or call 941.216-5578.



Full Line of Custom Liftgates Light-Medium-Heavy-Duty

Quality Liftgates for Every Application

THIEMAN TAILGATES, INC. markets a full-line of hydraulic liftgates for light, medium, and heavy-duty trucks and trailers. Toplifters, Stowaways, Railgates, Sideloaders, and Conventional models are all part of the THIEMAN line-up.

For many years **THIEMAN** has been customizing liftgates to meet specific needs. If a special need arises, give us a call. From 1000 lb. to 6600 lb. lifting capacities, **THIEMAN** can provide a liftgate for almost every application.



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