

COMPANY PRESENTATION



Elka®
suspension 
επιβελτισμού 
ΕΙΚΑ®



COMPANY PROFILE

Elka Suspension was founded in 2000 and quickly established itself as the North American leader in aftermarket suspension manufacturing through a revolutionary approach based on high-quality products that are custom-built upon each customer's specific needs, delivered within a fast turnaround time and backed by personalized after-sale service and support.

During recent years, the company has diversified its operations and introduced innovative products for new niche markets such as sports-utility quads, mountain bikes and more recently snowmobiles.

Elka Suspension products are distributed worldwide through our vast network of authorized dealers and are also available online for North American customers from our Factory Web Store at www.elkawebstore.com.





MISSION

OUR GOAL IS TO PROVIDE YOU WITH HIGH-PERFORMANCE QUALITY SUSPENSION PRODUCTS BACKED BY THE VERY BEST IN PERSONALIZED CUSTOMER SERVICE.

From the beginning, Elka Suspension has always been committed to its customers. Each and every one of them deserves the same high-quality products and attention as any professional racer, regardless of their riding abilities. We have earned our reputation one customer at a time by offering truly custom-built suspension products, delivered within the fastest turnaround time in the industry and backed by unsurpassed customer service. Simply put, Elka Suspension offers greater value for the money than any competitor product at equivalent price.



RACING IS THE ULTIMATE FORM OF PRODUCT TESTING AND RACERS ARE THE MOST DEMANDING CUSTOMERS. THEY WANT IT ALL: PERFORMANCE, EXCLUSIVE TECHNOLOGY, RELIABILITY, COMFORT AND PERSONALIZED SERVICE, ALL OF WHICH ONLY ELKA SUSPENSION PROVIDES.





PRODUCTS & SERVICES

AFTERMARKET PRODUCTS

We offer aftermarket shock absorber upgrades for:

- Sports & Competition ATV
- Sports-Utility ATV
- Side-By-Side Vehicles
- Sportsbikes & Motorcycles
- Motocross & MiniMoto
- Snowmobiles
- Off-Road Vehicles & Trucks
- Motorsports & Race Cars
- Mountain Bikes

OEM, INDUSTRIAL & MILITARY APPLICATIONS

Our modular product platform can easily and quickly be adapted to offer a complete solution to manufacturers with OEM and aftermarket products. Elka Suspension's products and expertise can bring some huge added-value to any vehicle at a comparable cost. We also specialize in working closely with smaller manufacturers and chassis fabricators, offering them the support they often cannot get from other suspension companies because of their smaller business volume.

CONSULTATION SERVICES

Manufacturers can benefit from the expertise and experience of our Research & Development team through our suspension and hydraulics consultation services. Our engineers and technicians can work with them and help optimize their products and/or ensure their optimal integration with our shock absorbers.

CUSTOM FABRICATION & MANUFACTURING

Those with special projects can rely on our team for the conception, design and custom fabrication of unique products to suit their needs. We can also provide efficient manufacturing at competitive pricing for almost any kind of project or mass-production with the collaboration of our local and international partners.

ADDED VALUE

CUSTOMIZED SOLUTIONS

Our customers can choose from several configurations and adjustment options, getting the perfect balance between performance and tunability to meet their expectations and budget. Unlike mass-production shock absorbers bought off the shelf, every Elka Suspension product is custom-tuned according to each customer's specific needs. We also customize the internal valving so that the hydraulic resistance is optimal for the vehicle's intended use and provide the appropriate spring rate for the rider's weight.

PERFORMANCE & COMFORT IMPROVEMENTS

Each vehicle has its own geometry design with its inherent strengths and weaknesses. Based on extensive R&D and testing, our engineers are able to optimize certain aspects of the geometry that affect the handling attributes and improve on them to increase performance and comfort.

PERSONALIZED CUSTOMER SERVICE

Customer satisfaction has always been the priority at Elka Suspension. We strongly believe that each and every one of our customers deserves the same level of service and attention as the professional racers. When you call on Elka Suspension, you deal directly with a knowledgeable suspension specialist who will listen carefully to really understand your personal needs. Our specialists can advise and assist you in finding the most appropriate products to fulfill your expectations.

AFTER-SALE SUPPORT

After you have purchased from Elka Suspension, our team of dedicated technicians is only a phone call away to help you get the most out of your investment. They are available to answer any question you might have regarding the installation, adjustment and fine-tuning of your shock absorbers. We also attend selected events throughout the world with our Technical Support Program. During these events, you can meet our technicians at our support vehicle to get further assistance and emergency servicing. We always do our very best and go the extra mile to make sure you are entirely satisfied with our products and service.

WITH ELKA SUSPENSION, CUSTOMERS WON'T FEEL ALONE AND ON THEIR OWN WHEN IT COMES TO GET MORE PERFORMANCE OUT OF THEIR SUSPENSION.



ADVANCED TECHNOLOGY

ENGINEERING AND IN-HOUSE RAPID PROTOTYPING

When developing a new application, our R&D engineers and technicians will take multiple measurements to create a computer model. Then, our test riders assess the performance of the OEM suspension and provide feedback on what could be improved on it. After designing compatible products that provide the desired improvements, our engineers use in-house rapid prototyping to quickly assess the fitment. After all required modifications are made to the design, they generate the first prototypes that are used for additional testing. At Elka Suspension, this whole process happens in a short time frame: that's why we are able to quickly introduce several products for new models as the manufacturers unveil their vehicles on the market.

PURPOSE-DRIVEN NEW TECHNOLOGIES

Combining input from our pro riders and customers with objective data collected using our telemetric data acquisition systems, we develop new technologies that can address various issues encountered in specific riding conditions. This approach has led to the introduction of many successful products, such as the Dune Edition and the TRACK System®, and often enables us to improve existing products. Using 3D software (CAD) and Finite Element Analysis (FEA), our R&D engineers can quickly develop new designs and products, optimize the design and the strength of our products through computer models and simulations. These systems also allow them to collaborate easily with other aftermarket manufacturers to ensure compatibility and to generate data that can be used with our telemetric data acquisition systems to speed up and facilitate testing sessions with our professional riders.

EXTENSIVE REAL-WORLD TESTING

The most innovative concepts and features aren't worth much if they cannot translate into real advantages for our customers. That's why we also do extensive testing in real-world conditions with riders who have diverse riding experience, ensuring that we not only satisfy the professional racers, but also meet the needs and expectations of every customer profile. During these tests, the products are pushed to their very limits, far beyond what most of our customers would do. When you purchase Elka Suspension products, you receive high-quality shock absorbers AND you benefit from the combined knowledge and experience of many professional riders.



DYNAMOMETER TESTING

We use dynamometer testing both for quality control and for precise analysis when developing products. The precision provided by the dynamometer tremendously exceeds what the human eye can detect and supplies objective data that can be compared and reproduced across production units. This testing method has also proven more valuable and accurate than relying on subjective riders' tests alone.

CRAFTSMANSHIP & QUALITY

QUALITY IS CONTROLLED AT EVERY STEP OF PRODUCTION

From the raw materials to final shipment, our products must go through several quality controls. A finished product will never leave the factory if it doesn't meet our high standards of quality. Every unit is rigorously tested on a dynamometer to ensure maximum quality, performance and durability at a very precise level before it is marked with a serial number and sent out to a customer.

SMALL DETAILS MAKE A BIG DIFFERENCE

The design of all Elka Suspension products includes several features that have been incorporated over years of improvements and testing. Those small features are often overlooked, mainly because riders never notice them when everything is working fine. For example, we use the appropriate thread-locking fluid at several steps of the assembly process to prevent loosening from vibration and extended use. Also, a proprietary special bleeding and calibration process ensures that there are no microscopic air bubbles inside the oil that could expand when heated and decrease the overall performance of the product.

HIGHEST QUALITY MATERIALS AND COMPONENTS

All aluminum parts are CNC-machined from the finest materials and then anodized to provide a beautiful long-lasting finish. Our parts also undergo a heat and anti-friction treatment – processes essential to the production of a high-performance shock absorber. All o-rings, seals and wearbands have been carefully selected to provide the perfect balance of durability and reduced friction. The springs, bottom-out bumpers and many other components we use are manufactured exclusively for us so that they meet our standards of quality and performance.

HAND-ASSEMBLED TO THE TIGHTEST TOLERANCES

We put the same care and attention into every single unit we produce. Our experienced technicians hand-build each product, taking into account all the factors specific to each custom order. Using proprietary tools, they assemble the components to very tight tolerances in a controlled environment, so no impurities can get inside the shock absorbers. Our production is remarkably quick for custom-built products thanks to our unique manufacturing process.

OUR QUALIFIED AND EXPERIENCED TECHNICIANS ASSEMBLE EACH UNIT BY HAND TO THE HIGHEST STANDARDS, ENSURING A CONSISTENT QUALITY LEVEL FOR EACH INDIVIDUAL UNIT.





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