

UNIVERSAL OFF-ROAD SHOCK CATALOG



Eika® 

ABOUT ELKA

HISTORY

Founded in 2000 by three friends driven by a shared obsession for racing performance, Elka Suspension has grown from a small passion project into a globally recognized leader in high-end shock technology. Built on engineering excellence and real-world racing experience, Elka products are trusted by top professionals, competitive amateurs, and recreational riders who demand more control, more comfort, and more speed from their machines.

From podium-winning race setups to precision-tuned recreational shocks, every Elka product is designed to deliver superior traction, stability, and confidence across any terrain. What began as a pursuit of performance has evolved into a worldwide standard — yet we continue to stay true to our original DNA: pushing boundaries, elevating ride quality, and empowering riders of all levels to perform at their absolute best.

OUR RACING DNA

Racing isn't just part of Elka Suspension — it is our DNA. Since day one, our products have been shaped by the intensity, precision, and demands of real competition. From the roots of ATV racing with legends like Beau Baron and multi-time champion Joel Hetrick, to the relentless world of UTV competition with Mike Cafro and the Miller Brothers, our shocks have been tested, refined, and proven at the highest levels.

That same racing spirit carried all the way to the deserts of Saudi Arabia, where Elka-equipped machines took on the brutal stages of last year's Dakar Rally — one of the toughest endurance races on the planet. Every challenge, every podium, and every mile of unforgiving terrain fuels our commitment to engineer suspension that delivers unmatched control, durability, and performance.



OUR MISSION

Our mission is simple: deliver pure excitement. We engineer high-performance, ultra-reliable, and personalized shocks that amplify every moment on the trail, track, or wherever your adventure takes you.

WHY ELKA

PUTTING OUR EXPERTISE TO WORK WITH YOUR BUILD

Our edge comes from deep, vehicle-specific racing knowledge built over decades of competition. We don't just design shocks — we engineer precision-tuned solutions tailored to the unique dynamics of each ATV, UTV, snowmobile, or truck. Our team works directly with racers, studies real race conditions, and tests every setup in the environments it was built to conquer.

We turn this expertise into the best suspension solutions for your custom build, refining every detail to maximize traction, stability, and control. With Elka, your ride isn't just fitted — it's optimized to perform at its absolute best.



THE BEST SUSPENSION STARTS WITH QUALITY PARTS

Every great ride starts with the highest quality materials. We build our shocks using tough, high-grade aluminum and top-tier components engineered to handle the harshest conditions. This means lighter weight without sacrificing strength, better heat management for consistent performance, and durability that lasts race after race, trail after trail.

We don't cut corners — because we know that the foundation of true performance is uncompromising quality from the inside out. When you choose Elka, you're getting suspension built with precision-machined parts designed to deliver maximum control, reliability, and ride confidence no matter where you push your limits. That's how we turn premium materials into performance that outperforms.

THE BEST AFTERMARKET SUPPORT

At Elka Suspension, world-class performance is matched with best-in-the-industry support — before, during, and long after the sale. Whether you're a racer dialing in the perfect setup or a recreational rider looking for the right upgrade, our team is there every step of the way.

We help you choose the right suspension, guide you through installation, and provide expert tuning support so your shocks perform exactly the way you need them to. And if you ever have questions or need adjustments down the road, we're always just a call or message away.

With Elka, you don't just buy suspension — you gain a dedicated technical partner committed to your ride, your goals, and your long-term performance.

SHOCK ABSORBERS FOR OFF-ROAD APPLICATIONS

AVAILABLE MODELS (SPRINGS SOLD SEPARATELY)

SMOOTH BODY OFF-ROAD SHOCKS



- Smooth body off-road shock available in 2.0, 2.5 and 3.0 inches diameter and available with or without reservoir. Choose from our range of high-speed, low-speed compression and rebound adjustment. Standard with high-angle half-inch spacers with 1-and-a-half-inch mounting distance.

COILOVER OFF-ROAD SHOCKS



- Coilover off-road shock available in 2.0, 2.5 and 3.0 inches diameter and available with or without reservoir. Choose from our range of high-speed, low-speed compression and rebound adjustment. Standard with high-angle half-inch spacers with 1 and a half inch mounting distance.

2.0 OFF-ROAD SHOCKS



- Available both in IFP and remote reservoir configuration
- Stroke length available in 6, 8, 10, 12, 14, and 16 inches

2.5 OFF-ROAD SHOCKS



- Available in IFP, Piggyback and remote reservoir configuration
- Stroke Length available in 6, 8, 10, 12, 14, 16 and 18 inches.

3.0 OFF-ROAD SHOCKS



- Available remote reservoir configuration
- Stroke Length available in 8, 10, 12, 14, 16 and 18 inches.

INTERNAL FLOATING PISTON

- Sleek and compact design featuring an internal floating piston separating oil and nitrogen inside the shock to eliminate fading caused by emulsion shocks.
- Tuned for off-road riders who want more than just stiffness, the IFP shock offers buttery small-bump compliance and razor-sharp handling. It soaks up chatter and trail chop while keeping your machine planted, stable, and confident at any speed.
- Crafted from hard-anodized aluminum with precision-machined internals, the IFP shock stands up to mud, heat, and harsh conditions without compromise. It's engineered to perform ride after ride with minimal maintenance—true set and forget reliability for off-road enthusiasts.



PIGGYBACK RESERVOIR

- The integrated piggyback reservoir increases oil capacity and improves heat management, ensuring consistent damping and fade-free performance even during long, aggressive rides over rough terrain.
- Engineered for off-road riders who demand control, the Piggyback shock delivers exceptional traction, stability, and responsiveness. It reacts instantly to changing terrain, keeping your machine planted and predictable through every bump, turn, and landing.
- Constructed from hard-anodized aluminum with high-flow internals, this shock is designed to handle mud, heat, and heavy impacts without compromise. It's durable, reliable, and always ready to perform, ride after ride.



REMOTE RESERVOIR

- The remote reservoir design boosts oil volume and isolates heat from the main shock body, keeping performance consistent during long, demanding rides. Even in rough, high-speed terrain, it prevents shock fade and maintains smooth, controlled damping. Standard with a premium high-quality hydraulic hose.
- Designed for aggressive off-road use, this setup delivers precise handling, better traction, and superior bump absorption. It keeps your machine composed and predictable through whoops, ruts, and rocky sections—confidence you can feel in every turn and landing.
- Built with hard-anodized aluminum and precision-machined components, the Remote Reservoir shock is made to thrive in harsh conditions. It's durable, dependable, and ready for anything—from long desert



SHOCK ABSORBERS FOR OFF-ROAD APPLICATIONS

COILOVER (SPRINGS SOLD SEPARATELY)

RESERVOIR



- Available in remote and piggyback configuration
- Extra oil capacity for consistent damping on long rides
- Better heat dissipation to prevent shock fade
- Coilovers available in single and dual spring rate - Crossover and Lock Rings Included
- Designed to eliminate any possible cavitation

DUAL SPEED COMPRESSION



- High-Speed Compression Adjuster – Controls the shock's response to sharp impacts, jumps, whoops, and rocks, giving precise control over aggressive terrain.
- Low-Speed Compression Adjuster – Fine-tunes how the shock reacts to slower chassis movements like braking, cornering, and trail chatter, improving stability and traction.

REBOUND COMPRESSION



- Available only on our Reservoir Models with Dual Compression and Rebound adjustments
- Rebound Adjuster – Controls how quickly the shock extends after compression, keeping your machine planted, controlled, and predictable over jumps, whoops, and rough terrain.

ELKA'S UNIQUE APPROACH

- Precision-machined aluminum construction reduces weight while delivering durability for off-road abuse and hard-anodized finish protects against mud, water, and harsh elements, keeping the shock looking and performing like new ride after ride.
- Designed to work on virtually any vehicle, Elka's coilovers deliver top-tier off-road performance without compromise, no matter what you mount them on.
- With high-speed and low-speed compression plus rebound adjusters, riders can dial in traction, control, and comfort for any terrain—from rock crawling to high-speed desert runs.
- Built for extreme conditions, these coilovers feature reservoir technology and robust construction to maintain consistent damping and long-lasting reliability in the harshest off-road environments.

2.0 COILOVER

MODEL	RESERVOIR	LOW-SPEED	HIGH SPEED	REBOUND	PRICE
IFP					435,00 \$
REMOTE RESERVOIR	X				520,00 \$
REMOTE RESERVOIR – COMPRESSION ADJUSTMENT	X	X	X		650,00 \$
REMOTE RESERVOIR – COMPRESSION AND REBOUND ADJUSTMENTS	X	X	X	X	740,00 \$

2.5 COILOVER

MODEL	RESERVOIR	LOW-SPEED	HIGH SPEED	REBOUND	PRICE
IFP					525,00 \$
REMOTE RESERVOIR	X				605,00 \$
REMOTE RESERVOIR – COMPRESSION ADJUSTMENT	X	X	X		790,00 \$
REMOTE RESERVOIR – COMPRESSION AND REBOUND ADJUSTMENTS	X	X	X	X	900,00 \$
PIGGYBACK RESERVOIR	X				685,00 \$
PIGGYBACK RESERVOIR – COMPRESSION ADJUSTMENT	X	X	X		870,00 \$
PIGGYBACK RESERVOIR – COMPRESSION AND REBOUND ADJUSTMENTS	X	X	X	X	935,00 \$

3.0 COILOVER

MODEL	RESERVOIR	LOW-SPEED	HIGH SPEED	REBOUND	PRICE
REMOTE RESERVOIR	X				855,00 \$
REMOTE RESERVOIR – COMPRESSION ADJUSTMENT	X	X	X		1 050,00 \$
REMOTE RESERVOIR – COMPRESSION AND REBOUND ADJUSTMENTS	X	X	X	X	1 185,00 \$

SHOCK ABSORBERS FOR OFF-ROAD APPLICATIONS

SMOOTH BODY

RESERVOIR



- Available in remote and piggyback configuration
- Extra oil capacity for consistent damping on long rides and better heat dissipation to prevent shock fade
- Reduced cavitation for smooth, reliable performance
- Enhanced durability for harsh off-road conditions

DUAL SPEED COMPRESSION



- High-Speed Compression Adjuster – Controls the shock's response to sharp impacts, jumps, whoops, and rocks, giving precise control over aggressive terrain.
- Low-Speed Compression Adjuster – Fine-tunes how the shock reacts to slower chassis movements like braking, cornering, and trail chatter, improving stability and traction.

REBOUND COMPRESSION



- Available only on our Reservoir Models with Dual Compression and Rebound adjustments
- Rebound Adjuster – Controls how quickly the shock extends after compression, keeping your machine planted, controlled, and predictable over jumps, whoops, and rough terrain.

ELKA'S UNIQUE APPROACH

- Precision-machined smooth-body construction provides consistent, controlled damping while standing up to mud, water, and harsh elements, keeping the shock performing like new ride after ride.
- Universal fitment across vehicles allows Elka's smooth-body shocks to deliver top-tier off-road performance no matter what machine you mount them on.
- High-speed and low-speed compression plus rebound adjusters let riders dial in traction, control, and comfort for any terrain—from technical rock crawling to high-speed desert runs.
- Rugged and reliable, smooth-body shocks are built to withstand extreme conditions, featuring robust construction and fade-free performance for the harshest off-road environments.

2.0 SMOOTH BODY

MODEL	RESERVOIR	LOW-SPEED	HIGH SPEED	REBOUND	PRICE
IFP					325,00 \$
REMOTE RESERVOIR	X				430,00 \$
REMOTE RESERVOIR – COMPRESSION ADJUSTMENT	X	X	X		540,00 \$
REMOTE RESERVOIR – COMPRESSION AND REBOUND ADJUSTMENTS	X	X	X	X	635,00 \$

2.5 SMOOTH BODY

MODEL	RESERVOIR	LOW-SPEED	HIGH SPEED	REBOUND	PRICE
IFP					455,00 \$
REMOTE RESERVOIR	X				525,00 \$
REMOTE RESERVOIR – COMPRESSION ADJUSTMENT	X	X	X		690,00 \$
REMOTE RESERVOIR – COMPRESSION AND REBOUND ADJUSTMENTS	X	X	X	X	785,00 \$
PIGGYBACK RESERVOIR	X				540,00 \$
PIGGYBACK RESERVOIR – COMPRESSION ADJUSTMENT	X	X	X		720,00 \$
PIGGYBACK RESERVOIR – COMPRESSION AND REBOUND ADJUSTMENTS	X	X	X	X	790,00 \$

3.0 SMOOTH BODY

MODEL	RESERVOIR	LOW-SPEED	HIGH SPEED	REBOUND	PRICE
REMOTE RESERVOIR	X				855,00 \$
REMOTE RESERVOIR – COMPRESSION ADJUSTMENT	X	X	X		1 050,00 \$
REMOTE RESERVOIR – COMPRESSION AND REBOUND ADJUSTMENTS	X	X	X	X	1 185,00 \$

SHOCK ABSORBERS FOR OFF-ROAD APPLICATIONS

EXHAUSTIVE OPTIONS LIST

2.0 OFF-ROAD SHOCK OPTIONAL FEATURES

NON ADJUSTABLE REMOTE RESERVOIR : HOSE CONFIGURATION - FIXED FITTINGS



A. B. C. D. E. F.

ADJUSTABLE REMOTE RESERVOIR : HOSE CONFIGURATION - FIXED HEAD FITTING, SWIVEL RESERVOIR FITTING



A. B. C. D. E. F.

- HOSE LENGTH ; 14 INCHES LONG STANDARD. 10, 12, 16, 18 AVAILABLE (10\$), CUSTOM LENGTH AVAILABLE (25\$) - REMOTE RESERVOIR ONLY
- COMPRESSION VALVING ; SOFT, MEDIUM, HARD
- REBOUND VALVING ; SOFT, MEDIUM, HARD
- SHAFT DIAMETER ; 3/4 INCH DIAMETER
- PISTON TYPE ; STANDARD (NO BLEED HOLES), 1 BLEED HOLE (10\$), 2 BLEED HOLES (15\$)
- ALSO AVAILABLE ON DEMAND ; TOOL KIT, SHIM KIT
- BUMPER - 10\$
- SPRINGS SOLD SEPARATELY

EXHAUSTIVE OPTIONS LIST

2.5 & 3.0 OFF-ROAD SHOCK OPTIONAL FEATURES

NON ADJUSTABLE REMOTE RESERVOIR : HOSE CONFIGURATION - SWIVEL FITTINGS



A.

B.

C.

D.

E.

F.

ADJUSTABLE REMOTE RESERVOIR : HOSE CONFIGURATION - SWIVEL FITTINGS



A.

B.

C.

D.

E.

F.

- HOSE LENGTH ; 14 INCHES LONG STANDARD. 10, 12, 16, 18 AVAILABLE (10\$), CUSTOM LENGTH AVAILABLE (25\$) - REMOTE RESERVOIR ONLY
- PIGGYBACK HEAD ORIENTATION ; 0 OR 90 DEGREES
- COMPRESSION VALVING ; SOFT, MEDIUM, HARD
- REBOUND VALVING ; SOFT, MEDIUM, HARD
- 3.75IN SPRING CONVERSION ; 2.5 DIAMETER (EXCEPT PIGGYBACK) SHOCK ONLY (80\$)
- SHAFT DIAMETER ; 7/8 INCH DIAMETER (STANDARD), 1IN SHAFT - 3.0 DIAMETER SHOCK ONLY (50-65\$)
- PISTON TYPE ; STANDARD (NO BLEED HOLES), 1 BLEED HOLE (20-25\$), 2 BLEED HOLES (25-30\$), RACING (35-40\$)
- SPRING CLIP ; STANDARD OR RAISED - COILOVER ONLY (20-30\$)
- BUMPER - 10\$
- SEALS ; STANDARD, VITON SEALS (55-70\$)
- ALSO AVAILABLE ON DEMAND ; TOOL KIT, SHIM KIT
- SPRINGS SOLD SEPARATELY

PARTS AND ADJUSTMENTS

PARTS

- 1. UPPER SPACERS
- 2. HEAD ASSEMBLY
- 3. HOSE FITTING (HEAD - REMOTE RESERVOIR ONLY)
- 4. HOSE ASSEMBLY (REMOTE RESERVOIR ONLY)
- 5. PRELOAD RING (COILOVER ONLY)
- 6. BODY
- 7. LOCKRINGS (COILOVER ONLY)
- 8. CROSSOVER (COILOVER ONLY)
- 9. HOSE FITTING (RESERVOIR - REMOTE RESERVOIR ONLY)
- 10. RESERVOIR ASSEMBLY
- 11. SEALHEAD (VITON OPTIONAL)
- 12. SHAFT
- 13. BUMPER (OPTIONAL)
- 14. SPRING CLIP (COILOVER ONLY)
- 15. LOWER EYELET ASSEMBLY
- 16. LOWER SPACERS

ADJUSTMENTS

- 17. LOW-SPEED COMPRESSION
- 18. HIGH-SPEED COMPRESSION
- 19. REBOUND



THE BEST SHOCKS ON THE MARKET

PRODUCT ATTRIBUTES

- **Premium Materials:** High-grade aluminum and top-quality components built for strength, durability, and consistent performance.
- **Precision Engineering:** Designed to deliver maximum control, stability, and confidence across all types of terrain.
- **Selectable Performance Options:** Choose the shock model, features, and adjustments that match your riding style and needs.
- **Superior Damping Control:** Smooth, responsive shock action that enhances traction and sharpens handling.
- **Long-Lasting Reliability:** Engineered to withstand heavy impacts, extreme conditions, and demanding use.
- **Fully Serviceable:** Rebuildable, re-valvable, and upgradeable to extend product life and maintain peak performance.
- **Enhanced Comfort & Control:** Reduces rider fatigue while delivering a more planted, predictable ride.
- **Race-Proven Technology:** Developed and refined through decades of real-world racing and competition.

OUR SUCCESS

At Elka Suspension, our success comes from one place: our racing DNA. Every shock we build is shaped by the same drive, precision, and competitive edge that fueled our early days on the track. Decades of racing experience have taught us how to extract maximum performance, durability, and control — lessons that flow directly into every product we produce.

This relentless pursuit of speed and innovation is why riders and drivers around the world trust Elka for results. But our success isn't just about racing trophies — it's about taking that championship-level expertise and applying it to your custom build. Whether you're hitting rugged trails, tackling dunes, or pushing your off-road rig to its limits, Elka's off-road shocks deliver tailored performance that transforms your ride.

From professional racers to weekend warriors, our suspension solutions bring race-proven technology, superior materials, and precision engineering to every custom setup — ensuring you get unmatched control, comfort, and durability no matter where the road or trail takes you. That's how our racing heritage powers your ride's ultimate success.

SHOCK ABSORBERS FOR OFF-ROAD APPLICATIONS

TECHNICAL DATA - SPEC SHEETS (CONTACT US FOR SPRINGS ORDERS)

2.0 OFF-ROAD SHOCKS

IFP SERIE

TRAVEL (in)	EXTENDED (in)	COMPRESSED (in)	SPRING SPACE (COILOVER)	SINGLE RATE SPRING (COILOVER)	DUAL RATE (COILOVER)
6	20,08	14,09	14,31	12"	6" + 8"
8	24,13	16,14	18,37	16"	8" + 10"
10	28,23	18,23	22,46	NA	8" + 14"
12	32,32	20,31	26,56	NA	10" + 14"
14	36,42	22,40	30,65	NA	14" + 14"
16	40,29	24,41	34,52	NA	16" + 16"

RESERVOIR SERIE

TRAVEL (in)	EXTENDED (in)	COMPRESSED (in)	SPRING SPACE (COILOVER)	SINGLE RATE SPRING (COILOVER)	DUAL RATE (COILOVER)
6	19,09	13,11	13,33	12"	6" + 8"
8	23,11	15,12	17,34	16"	8" + 10"
10	27,13	17,13	21,36	NA	8" + 14"
12	31,61	19,61	25,85	NA	10" + 14"
14	35,63	21,61	29,86	NA	14" + 14"
16	39,61	23,73	33,84	NA	16" + 16"

2.5 OFF-ROAD SHOCKS

IFP SERIE

TRAVEL (in)	EXTENDED (in)	COMPRESSED (in)	SPRING SPACE (COILOVER)	SINGLE RATE SPRING (COILOVER)	DUAL RATE (COILOVER)
6	20,20	14,21	13,41	14"	6" + 8"
8	24,21	16,22	17,42	16"	8" + 10"
10	28,35	18,35	21,56	NA	8" + 14"
12	32,60	20,59	25,81	NA	10" + 14"
14	37,20	23,19	30,41	NA	14" + 14"
16	41,97	25,98	35,18	NA	16" + 16"
18	45,98	27,99	39,19	NA	16" + 18"

REM. RESERVOIR SERIE

TRAVEL (in)	EXTENDED (in)	COMPRESSED (in)	SPRING SPACE (COILOVER)	SINGLE RATE SPRING (COILOVER)	DUAL RATE (COILOVER)
6	20,20	14,21	13,41	14"	6" + 8"
8	24,21	16,22	17,42	16"	8" + 10"
10	28,35	18,35	21,56	NA	8" + 14"
12	32,60	20,59	25,81	NA	10" + 14"
14	37,20	23,19	30,41	NA	14" + 14"
16	41,97	25,98	35,18	NA	16" + 16"
18	45,98	27,99	39,19	NA	16" + 18"

PIGGYBACK SERIE

TRAVEL (in)	EXTENDED (in)	COMPRESSED (in)	SPRING SPACE (COILOVER)	SINGLE RATE SPRING (COILOVER)	DUAL RATE (COILOVER)
6	20,20	14,21	14,17	14"	6" + 8"
8	24,21	16,22	18,19	16"	8" + 10"
10	28,35	18,35	22,32	NA	8" + 14"
12	32,60	20,59	26,57	NA	10" + 14"
14	37,20	23,19	31,18	NA	14" + 14"
16	41,97	25,98	35,94	NA	16" + 16"
18	45,98	27,99	39,96	NA	16" + 18"

FOR MORE INFORMATION, VISIT:

<https://www.elkasuspension.com/product-category/off-road-shocks/>

3.0 OFF-ROAD SHOCKS

RESERVOIR SERIE

TRAVEL (in)	EXTENDED (in)	COMPRESSED (in)	SPRING SPACE (COILOVER)	SINGLE RATE SPRING (COILOVER)	DUAL RATE (COILOVER)
8	24,69	16,69	17,56	18"	8" + 10"
10	28,70	18,70	21,57	22"	8" + 14"
12	32,72	20,71	25,59	NA	10" + 14"
14	37,44	23,43	30,31	NA	14" + 14"
16	42,20	26,22	35,08	NA	16" + 16"
18	46,97	28,98	39,84	NA	16" + 18"



Elka[®] 