



Wathb Electric Side Steps

*Crafted to Ease your adventure
Engineered for Arabian Terrains*



StrengthMeets Precision

www.wathboffroad.com

Explore The Unseen





Crafted to Ease your adventure Engineered for Arabian Terrains

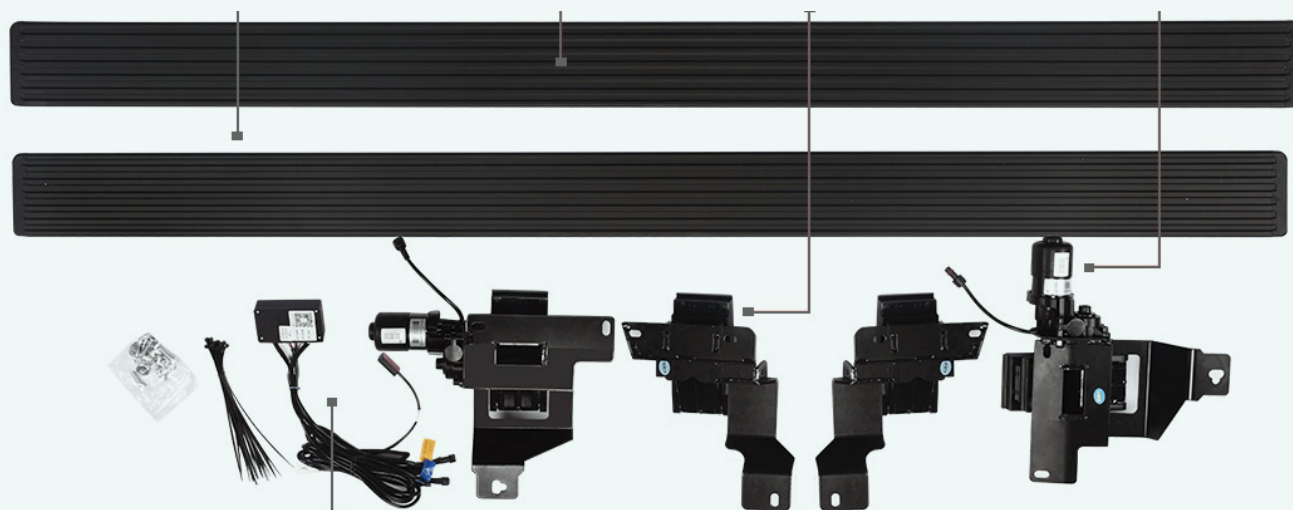
At WATHB, we don't just build off-road products — we build confidence. Founded in Saudi Arabia, WATHB is committed to delivering high-performance solutions that meet the demands of Middle Eastern terrains. Our portfolio spans winches, recovery gear, and off-road accessories, each engineered with premium materials, desert-grade durability, and a user-first mindset. Our automatic electric side steps exemplify this vision — combining practical innovation, reliable control systems, and rugged design to provide effortless access, comfort, and style.



Key Highlights:

- 300KG Load Capacity
- Motorized Deploy/Retraction (2.0–1.5s Speed)
- IPX7 Waterproof Electric Motors
- Advanced ECU with Overload Protection
- Anti-Corrosion T6 Aluminum Panel
- Temperature Range: -30°C to +70°C
- Dustproof & Shock-Resistant Components

Product Structure:



- Step Panel (Black Diamond Style / Anti-Slip Surface)
- Waterproof Motor Unit x2
- Aluminum CNC Brackets (Die-cast precision)
- ECU Control Unit
- Full Wiring Harness
- Stainless Mounting Screws & Anchors





Performance Parameters

Parameter	Value
Max Load Capacity	300KG
Operating Time	sec 2.0 - 1.5
Rated Current	5A >
Standby Current	0.5mA ≥
Voltage Range	16V - 9V
Motor Torque	40N.m <
Operating Noise	60dB >
Waterproof Grade	IPX7
Operating Temp	C°70+ ~ C°30-
Storage Temp	C°80+ ~ C°40-
Overload Protection	YES



One-piece Panel

Aluminum alloy panel

Industrial-grade
Reinforced nylon end cap

126mm



- The panel is made from thickened, high-quality anodized aluminum.
- Reinforced internal rib structure enhances load-bearing performance, with a single side supporting up to 300kg.
- Surface treated with plastic-sprayed coating; in case of impact, the coating does not peel off over a wide area. The coating adheres strongly and is formed in one step, making it resistant to fading.
- Both ends are fitted with high-strength engineered nylon caps for effective impact resistance.
- Features a four-row embedded nut fixing design to ensure even force distribution across the entire step board.

IPX7 rated waterproof motor (deep waterproof treatment)

Can effectively isolate internal components from water, dust, corrosion, and other issues.
Provides safety protection to the ECU unit and prevents short circuit damage.

Uses integrated sealed ring design to block various liquids from entering and damaging the motor.

Prevents unexpected damage from sand or small stones impacting the motor head during operation.

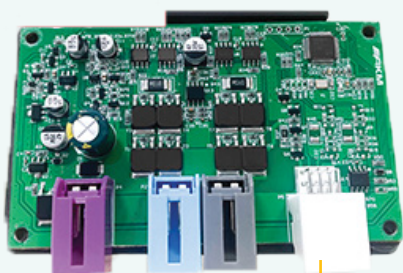
High-precision worm gear rod with self-locking gear structure, effectively prevents step misalignment caused by vibration during vehicle movement.
Ensures secure holding when motor power is insufficient and prevents unintended extension.



Ecu electronic Control System (Double Insurance System)

Our ECU control system uses a highly sealed core controller that passes EMC testing in vehicle environments. It upgrades the ECU motor drive with a special electromagnetic sensor (non-contact detection), ensuring smart keyless control.

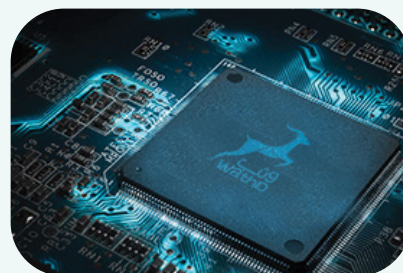
Imported American chips are used, offering dual-layer protection, making the system safe and reliable.



Internal circuit board diagram



Ecu outer shell



Aluminum Die-casting Movable Bracket

The aluminum alloy is CNC-processed and molded through die-casting, making it lightweight, highly precise, and strong in hardness.

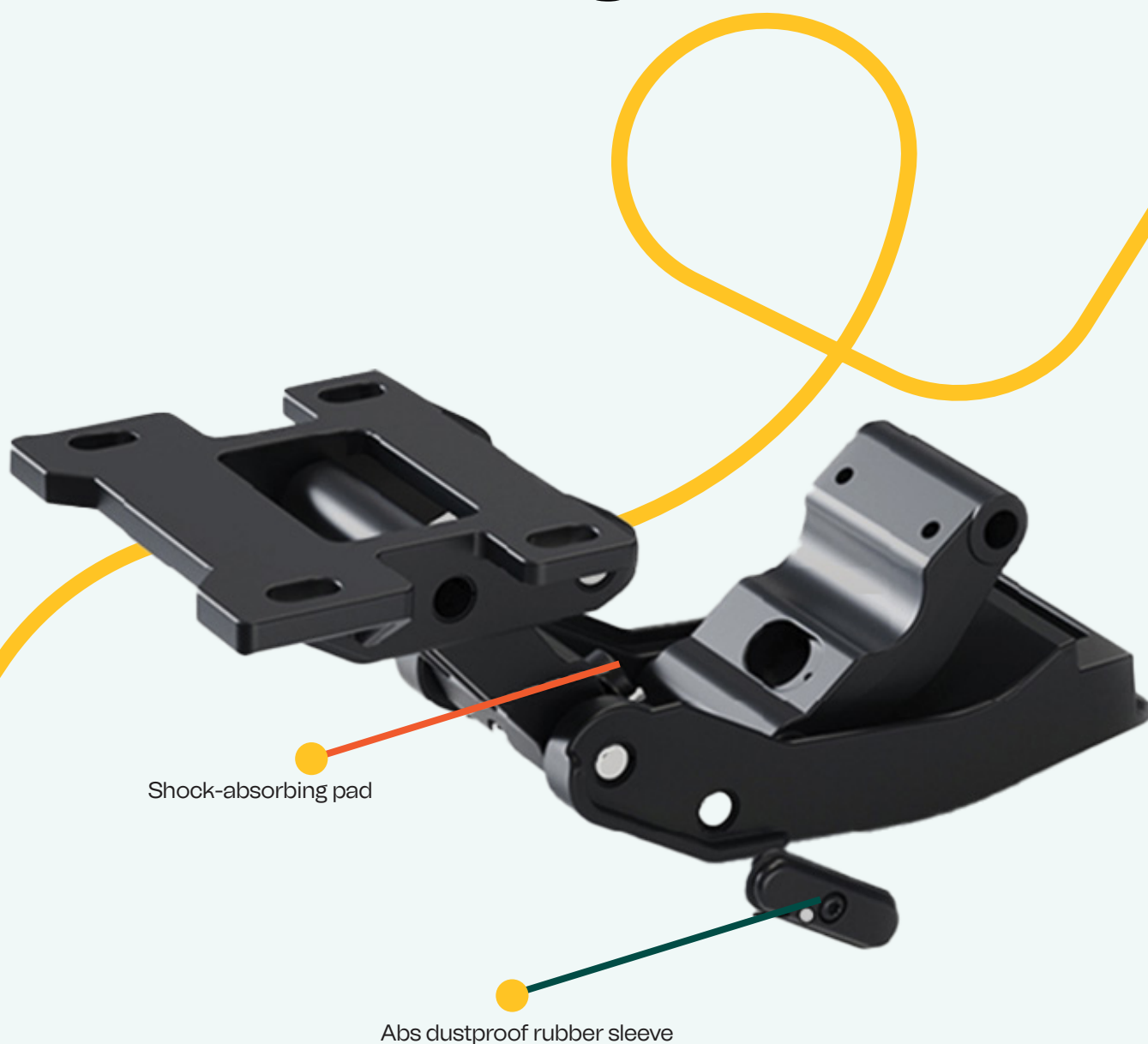
The surface undergoes processes like polishing, sandblasting, powder coating, and electroplating to enhance corrosion resistance and minimize dimensional deviation.

Each bracket supports about 300kg of weight.

Without proper treatment, the brackets are prone to rust and corrosion, which may cause malfunctions.



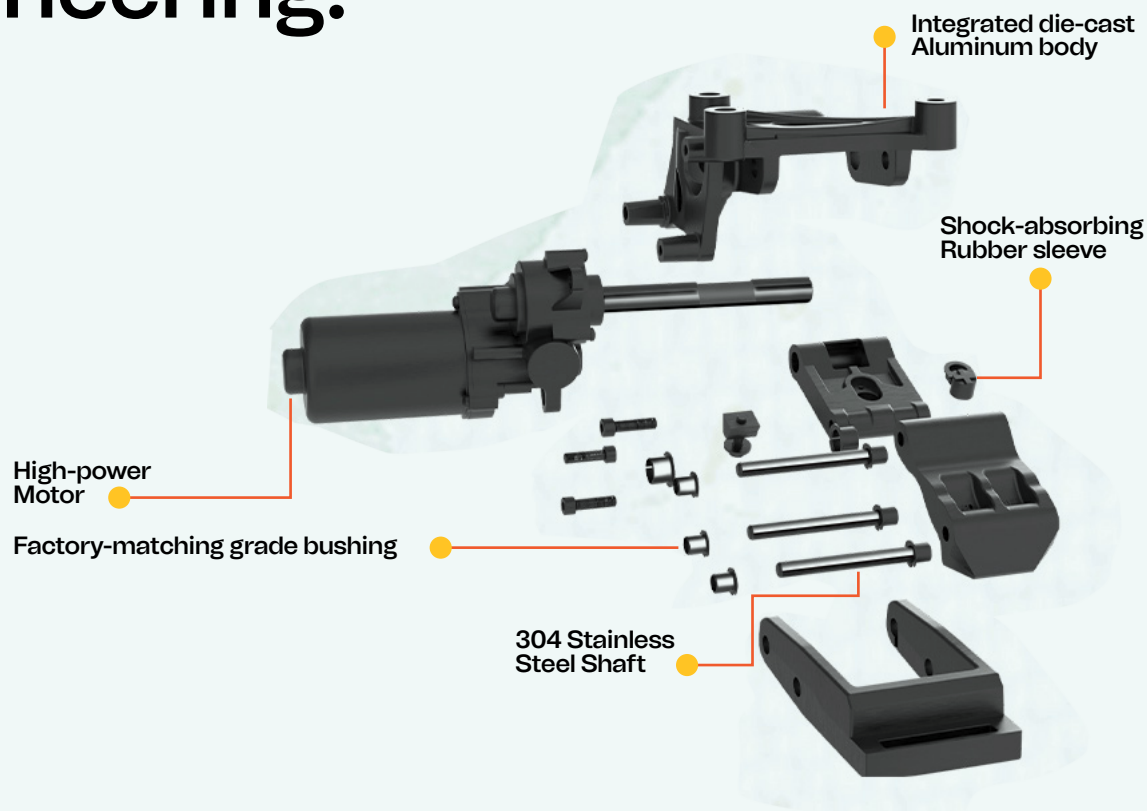
Stand With Dust Cover Design



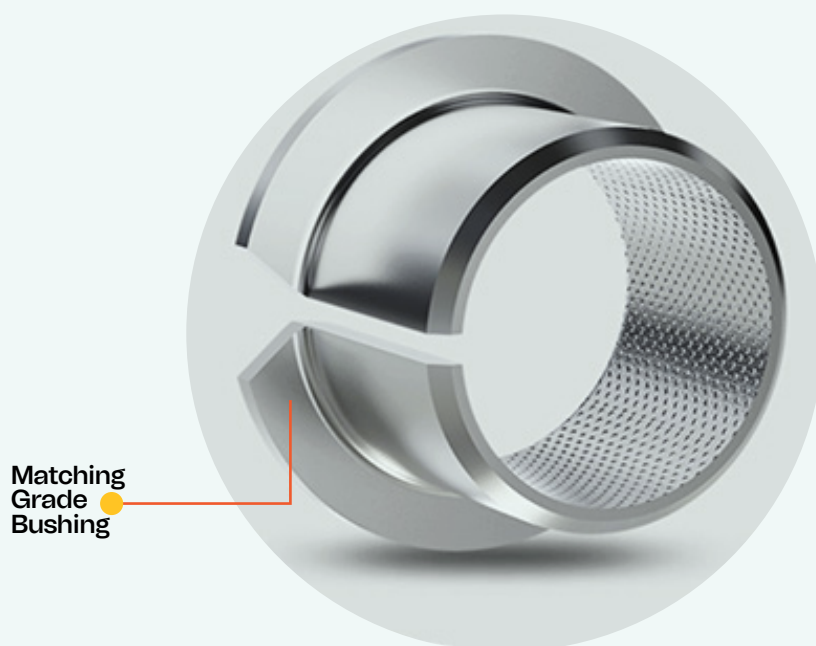
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Comfort & Safety Engineering:



- Dust-proof Bracket Design: Sealed joints protect from debris and sand.
- Self-locking Gear Motor: Prevents collapse if power fails.
- Reinforced Nylon Ends: Impact-absorbing and weather-resistant.
- Anti-slip grooves: Keep feet secure in rain, sand, or mud.
- Steel Trim Finish: 304-grade stainless finish trim.



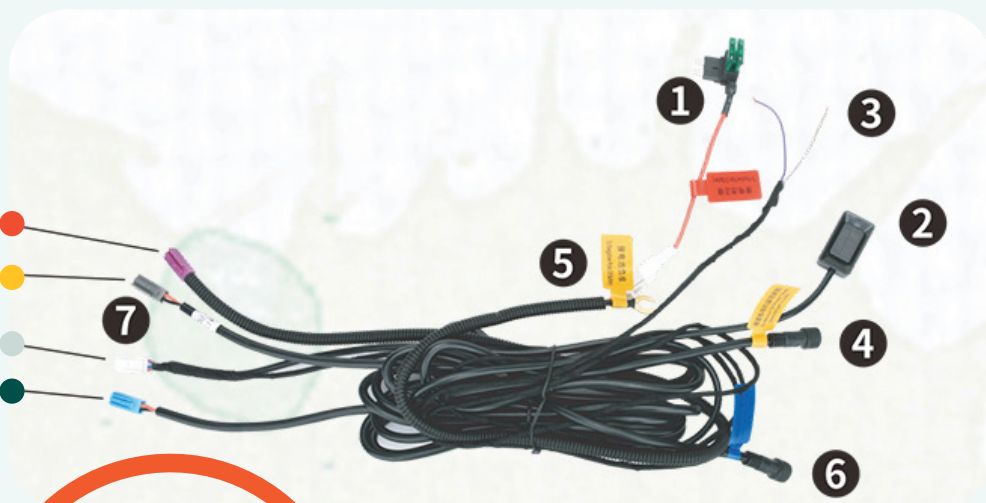
Harness

The wire terminals are designed to exceed actual current by more than %35, providing better safety.

The corrugated tubing is made from industry-grade nylon material, rated V-0 for fire resistance, with excellent wear and aging resistance.

The independent plug-head design allows for easy wiring, simplifies installation, and makes post-sale troubleshooting more convenient.

Main power wire
Right system wire
Signal wire
Left system wire



Numbered connections (7-1):

- 1-Connect to battery positive
- 2-Manual switch
- 3-CAN signal wire
- 6 & 4-Connect to left and right pedal motors
- 5-Connect to battery negative
- 7-Connect to ECU





Operation Mechanism:

When the door opens, the electric steps deploy smoothly in 1.5 to 2 seconds. Once the door is closed, the steps automatically retract. The system lowers the effective step-in height to ~170mm, ensuring a comfortable entry for:

Children: 130-120mm comfortable height

Ladies: 160-150mm

Elderly: 150-140mm





Principle Of Operation





Principle Of Operation

- When the door opens, the electric side step automatically extends.
- When the door closes, the side step retracts back into place.

Design Concept

- The electric side step lowers significantly when deployed, reducing the vehicle's entry height.
- This makes stepping in easier and noticeably improves passenger comfort.

Recommended Step Height by User Group:

- Children: Comfortable step height: 130–120mm
- Women: Comfortable step height: 160–150mm
- Elderly: Comfortable step height: 150–140mm

According to ergonomic studies, the ideal step height for ease and comfort is between 180–130mm, with 160–150mm considered the most comfortable range.

Standard SUV step-in height often ranges between 450–350mm, which significantly exceeds comfort levels—especially for children and elderly passengers.

After installing the electric side step, it lowers by approximately 60mm upon deployment, bringing the effective step height down to 180–150mm, ensuring a smoother and more comfortable entry experience.



Compatibility

Engineered for adventure, our system is fully compatible with 30+ top 4x4 models, ensuring a seamless fit with the most iconic off-road vehicles on the planet. From rugged classics like the Land Cruiser and Wrangler to modern beasts like the Bronco and RAM 1500—if it's built to explore, we're built to match.



- Fully compatible with 4 +30x4 vehicles. Including:
- Toyota Land Cruiser, Prado, Hilux, LC79, LC300, LC250, LC76, LC78
- Nissan Patrol
- Jeep Wrangler (2D/4D)
- Ford F150, Raptor, Bronco
- GMC Sierra, Chevrolet Silverado
- Tank 300, JIMNY, MU-X, RAM 1500, Poer, Triton L200, D-Max



Common Troubleshooting Guide:

Recommended Action	Possible Cause	Issue
Charge battery & tighten connections	Weak battery / loose cables	Step doesn't deploy
Use original harness & pause operation	Prolonged use or wrong wiring	Motor heats up
Replace battery or check power source	Battery aging / low voltage	Step deploys slow
Replace solenoid or unit	Damaged solenoid	Step moves one way only
Inspect CAN input / Reset ECU	Faulty signal wiring	ECU not responding

Maintenance Recommendations:

- Rinse with water after off-road or salt exposure
- Inspect wiring & mount bolts every 5,000km
- Reapply silicone on hinges twice a year
- Avoid direct high-pressure spray on motor



BRAND	PRODUCTS	MODEL
Land Rover	DEFENDER DEFENDER DEFENDER Grenadier	(2-door90)2023-2020 (4-door110)2023-2020 (4-door130)2023-2020 2023+
Jeep	WRANGLER JK WRANGLER JK WRANGLER JL WRANGLER JL WRANGLER JL (vehicle has side skirt)	4-DOOR 2017-2008 2-DOOR 2017-2008 4-DOOR 2018+ 2-DOOR 2018+ 4-DOOR 2018+
Ford	F150 F150 BRONCO BRONCO	CREW CAB 2020-2015 CREW CAB 2023-2021 4-DOOR 2022+ 2-DOOR 2022+
Chevrolet	SILVERADO SILVERADO	1500 CREW CAB 2018-2015 1500 CREW CAB 2023-2019
Toyota	LC200 LC250 LC300 LC79 LC79 LC76 LC78 PRADO FORTUNER FJ Cruiser Hilux	2021-2014 2024+ 2023-2022 4-door 2-door 2023-2012 2023-2012 2023-2018 2016+ / REVO /ROCCO 2024-2020
Nissan	PATROL PATROL	2017-2016 2023-2018
Mitsubishi	TRITON L200 TRITON L200	2023-2015 2024
SUZUKI	JIMNY 2 doors JIMNY 4 doors	2024-2019 2024+
Tank	TANK 300	2020
Great Wall	POER	2019
ISUZU	MU-X D-MAX D-MAX	2023-2015 2020-2014 2021+
GMC	SIERRA 4door SIERRA 4door	2018-2014 2023-2019
Dodge	RAM 1500	2024-2019



Warranty & Support

Confidence Backed by Service



2-Year Warranty Covering motors, brackets, ECU, and panel.

This warranty covers:

- Defects in materials and craftsmanship
- Motor or ECU malfunctions not caused by misuse
- Replacement or repair of defective parts at no cost to the customer

This warranty does NOT cover:

- Damage due to misuse, improper installation, or electrical modification
- Normal wear and tear (e.g. scratches, fading, or dust buildup)
- Unauthorized modifications or repairs
- Damage from accidents, racing, or off-spec usage environments

Claim Process:

To initiate a warranty claim, please contact our customer support team at:

Support@wathboffroad.com

Please include:

- Proof of purchase
- Product serial number
- A detailed description of the issue

Wathb reserves the right to inspect the product and determine the validity of the claim. If eligible, we will repair, replace, or refund the product at our discretion.



Brand Story & Values

More Than a Tool. It's a Mindset.

At Wathb, we stand for courage, precision, and resilience. Our gear is built for explorers who aren't afraid to get stuck—and know how to get out.

Every line, feature, and screw on this Wathb Winch was designed with purpose: to serve those who conquer the unknown.





The World Of Wathb

Brand Story & Founders

Driven by Vision. Engineered by Experience.

Wathb Offroad is more than just a product line—it's a lifestyle solution built by experts who live and breathe offroad adventures. Rooted in the Arabian terrain, we aim to become the preferred offroad brand in the region by addressing local needs with global expertise.

The Founders:

Mausa Albarqi

Founder of Arabian4x4 and Rahaloon Overland. A pioneer in the Saudi offroad community who has tested and represented key brands from the US, South Africa, Australia, and Asia. Mausa has led more than 1500 km of expeditions in the Empty Quarter desert, pushing products to their limits in real-world conditions.

Hang Weng

Founder of one of China's longest-running 4x4 companies. With over 800 professional vehicle modification projects, Weng has built strategic alliances with 126 top-tier suppliers and developed numerous patented innovations. He has led off-road teams through China's toughest uninhabited zones and co-founded the Off-Road Club and Tough Guys Corps.

Ben Ma

A seasoned aviation engineer, Ben infuses the precision of aerospace mechanics into off-road technology. His passion for both land and sky translates into unmatched safety and technical reliability in Wathb's engineering approach.

Kevin Hui

A real estate marketing expert and off-road enthusiast, Kevin specializes in market research and customer experience design. He brings a comprehensive sales lifecycle strategy—from pre-sale to post-sale—tailored specifically for Middle Eastern consumers.


Together, the founders created Wathb as a locally-rooted offroad brand that fulfills regional demands while offering globally competitive quality and value. We are continuously expanding our product ecosystem to cover every aspect of the offroad lifestyle—delivering not just tools, but total confidence.



Ready For the Unseen?

Explore. Recover. Dominate.

For full technical support, installation guidance, or branding customization, please contact our team at
Support@wathboffroad.com
Or visit our website: www.wathboffroad.com

 QR Code: Leads to the official product page

www.wathboffroad.com

