

Hard Shell



INTRODUCTION

Hardshell is a vertically integrated global defense manufacturer with over 25 years of expertise in designing, developing, and delivering advanced vehicle armoring solutions. Our design and engineering teams operate out of the UK, while our state-of-the-art manufacturing and testing facilities span the UAE, Asia, and the USA, enabling us to deliver uncompromising protection through precision engineering, innovation, and rigorous quality control.

As a trusted leader in the vehicle armoring industry, we serve defense forces, security agencies, government institutions, corporates, and private clients across the globe. Our extensive international presence allows us to cater to diverse operational requirements while strictly adhering to globally recognized ballistic, blast, and mine protection standards.

Innovation lies at the heart of our approach. Hardshell invests continuously in research and development to integrate cutting-edge materials and technologies, including advanced composites, high-strength steels, ceramics, and specialized nanotechnology coatings. This enables us to engineer lightweight, durable armour solutions that maximize protection without compromising vehicle performance or occupant comfort. Our solutions cover the full spectrum of protection—from underbody blast mitigation and ballistic glass assemblies to run-flat systems, reinforced structural elements, and advanced electronic security integrations—ensuring vehicles can operate safely in high-threat environments.

Our comprehensive portfolio includes armoured passenger cars, SUVs, and limousines for VIPs, tactical and military vehicles for defense forces, and specialized vehicles for law enforcement operations. Each vehicle is meticulously armoured to preserve its performance, handling, and aesthetics while delivering the highest levels of safety and survivability.

Hardshell's vehicles undergo extensive testing and validation in accordance with international standards, including NIJ, VPAM, and STANAG, ensuring they provide superior protection under extreme conditions. With operations in over 100 countries and a strong track record of successful deployments, Hardshell has earned a global reputation for reliability, technical excellence, and trust. Our commitment is to safeguard lives by delivering world-class vehicle protection solutions tailored to the unique demands of every client.



Q4 095, SAIF Zone Sharjah U.A.E



Hardshell UK Limited,
Unit 1 Columbus Walk,
Brigantine Place, Cardiff, Wales,
CF10 4BY



+971 506339794



enquiry@hardshell.ae



www.hardshell.ae

LOCATIONS

Hardshell operates on a global scale, with a robust presence across Europe, the Middle East, and Asia. Over the years, we have developed a strong reputation for delivering high-quality, reliable defense and protection equipment to both government and private sector clients. Our international footprint enables us to efficiently meet the needs of our diverse clientele, ensuring timely delivery of advanced protective solutions wherever they are required.

We cater to a wide range of clients, including military, law enforcement, emergency responders, and private security organizations. Our government clients rely on Hardshell for mission-critical protection equipment, while our private sector clients, including those in high-risk industries such as energy, construction, and logistics, trust us to provide reliable, durable gear for their teams in demanding environments.

With manufacturing and testing facilities in key regions, including the UAE, Asia, and the USA, we can offer tailored solutions that meet the unique demands of each market. Our focus on innovation and quality ensures that we provide our clients with the best possible protection, using advanced materials and technologies. This ability to cater to a broad spectrum of industries has made Hardshell a preferred partner for those who require superior safety and performance.

Our long-standing relationships with both government and private sector clients reflect the trust placed in us to deliver products that meet or exceed stringent performance standards. Whether supplying ballistic armor, armored vehicles, or tactical gear, we take pride in knowing that our products contribute to the safety of those who work in the most challenging conditions.

Hardshell continues to expand its global reach, providing cutting-edge protection solutions to clients worldwide, and ensuring that our commitment to quality, innovation, and safety remains at the forefront of everything we do.



Q4 095, SAIF Zone Sharjah U.A.E



Hardshell UK Limited,
Unit 1 Columbus Walk,
Brigantine Place, Cardiff, Wales,
CF10 4BY



+971 506339794



enquiry@hardshell.ae



www.hardshell.ae

OUR TEAM AND ENGINEERING EXCELLENCE

At Hardshell, our greatest strength lies in our people. Behind every armoured vehicle we deliver is a multidisciplinary team of engineers, designers, and specialists who bring together decades of expertise in materials science, mechanical engineering, and vehicle integration. Their collective knowledge and dedication form the backbone of our reputation for uncompromising protection and quality.

Our engineering approach combines innovation with precision. From the earliest design stage to final production, our team ensures that every solution is tailored to meet the unique requirements of our clients while conforming to international standards of safety and performance. Advanced software tools, 3D modelling, and simulation techniques allow us to design systems that integrate seamlessly into the base vehicle, ensuring ballistic and blast protection without compromising handling, comfort, or aesthetics.

The people behind our success come from diverse professional backgrounds, including defense engineering, automotive design, and advanced composite research. This diversity of skills allows us to constantly innovate—whether in developing lightweight armouring solutions, enhancing underbody blast resistance, or perfecting multi-hit ballistic glass assemblies. Each project is a collaboration between our engineering expertise and our clients' operational needs, resulting in vehicles that perform reliably in the most demanding environments.

At Hardshell, engineering excellence is not just about technology—it is about a culture of continuous improvement and accountability. We invest heavily in training and development to ensure our teams remain at the forefront of the latest advances in protective technologies. By blending human ingenuity with advanced manufacturing capabilities, we deliver armoured vehicles that meet and exceed expectations in both performance and safety.



Q4 095, SAIF Zone Sharjah U.A.E



Hardshell UK Limited,
Unit 1 Columbus Walk,
Brigantine Place, Cardiff, Wales,
CF10 4BY



+971 506339794



enquiry@hardshell.ae



www.hardshell.ae

TECHNOLOGY AND INNOVATION

Innovation is at the heart of Hardshell's vehicle armouring philosophy. Over the years, we have continually invested in research and development to create solutions that deliver maximum protection while minimizing weight, preserving vehicle performance, and ensuring long-term durability. By integrating cutting-edge materials and advanced engineering practices, we redefine what is possible in the field of armoured mobility.

Our expertise spans a wide spectrum of technologies, including the use of high-strength ballistic steels, advanced ceramics, lightweight composites, and multi-layered ballistic glass systems. These materials are carefully engineered and layered to deliver superior protection against small arms fire, high-calibre rounds, and explosive threats, while still maintaining the original agility and comfort of the base vehicle. Proprietary nanotechnology-based coatings, such as Liquid Armour®, further enhance durability and resistance, offering next-generation solutions for high-threat environments.

Technology at Hardshell goes beyond materials—it is about integration. Using advanced CAD systems, ballistic modelling, and simulation tools, our engineers design protection systems that are seamlessly incorporated into vehicles without visible compromise to their form or function. This precision allows us to offer discreet, effective armouring solutions tailored to the needs of VIP clients, law enforcement, and military operators alike.

We also innovate in performance retention, ensuring that our armoured vehicles are not only secure but also reliable and responsive in real-world conditions. From run-flat tyre systems and reinforced suspensions to blast-resistant underbodies and fuel tank protection, every innovation is developed with the end-user in mind. By combining advanced technologies with rigorous testing, we create vehicles that embody the perfect balance of protection, functionality, and innovation.



Q4 095, SAIF Zone Sharjah U.A.E



Hardshell UK Limited,
Unit 1 Columbus Walk,
Brigantine Place, Cardiff, Wales,
CF10 4BY



+971 506339794



enquiry@hardshell.ae



www.hardshell.ae

LICENSES AND CERTIFICATIONS

Hardshell is a fully licensed and accredited defense manufacturer, operating in strict compliance with the regulatory framework of the United Arab Emirates. Our approvals from key authorities, including the UAE Ministry of Defence, affirm our legitimacy and capability in the manufacture of defence and security equipment. This unwavering commitment to compliance and quality forms the foundation of every vehicle we deliver. To support this commitment, we hold a range of corporate and industrial licenses that authorize our core activities in manufacturing, engineering, and project management. These include the Ministry of Defence Industrial License, issued by the UAE Ministry of Defence, which permits us to manufacture military tools and supplies, valid until March 2026. In addition, we are accredited by the Sharjah Airport International Free Zone (SAIF Zone) with both an Industrial License for the manufacture of personal protective equipment and a Services License for project management consultancy, both valid until August 2026.

Our adherence to international protection standards extends beyond corporate licensing to the certification of the critical materials and components used in our armouring solutions. Every element, from ballistic steel and transparent armour to run-flat systems, undergoes independent testing and certification by globally recognized laboratories. For instance, Protac 500 ballistic steel plates have been certified by Beschussamt Ulm, Germany, achieving resistance class PM 7 under VPAM standards. Similarly, our 42 mm ballistic glass systems have been tested and approved by the Jordan Design & Development Bureau (JODDB), successfully withstanding multiple NATO calibre rounds without perforation or splintering. Our 18-inch run-flat systems, tested by TÜV NORD Mobilität, Germany, demonstrated flawless performance by sustaining a 50 km drive at 50 km/h under full load after complete deflation.

By combining internationally recognized corporate licenses with rigorously certified materials and systems, Hardshell ensures that every vehicle meets the highest levels of safety, reliability, and compliance. These accreditations not only validate our technical capability but also reinforce the trust that global clients place in us as a leading vehicle armouring manufacturer.



Q4 095, SAIF Zone Sharjah U.A.E



Hardshell UK Limited,
Unit 1 Columbus Walk,
Brigantine Place, Cardiff, Wales,
CF10 4BY



+971 506339794



enquiry@hardshell.ae



www.hardshell.ae

3/22/25, 9:45 AM

MOD | Licensing and Defense Industries Security



اسم الرخصة : Industrial license

Industrial License: License Name

رقم الطلب	20250120102151	Request No.
رقم الموافقة المبدئية	MOD-IL-SHJ-000005	Initial Approval No.
إسم الشركة	Hard Shell FZE	Company Name
تاريخ الإصدار	19-03-2025	Issuance Date
تاريخ الانتهاء	18-03-2026	Expiray Date
رقم الرخصة الاقتصادية	08460	Economic Licenes No.

Activity Name	كود النشاط	Activity Name
صناعة الأدوات و اللوزم العسكرية	3290027	Military Tools and Supplies Manufacture



سلطة الترخيص
Licensing Authori

وثيقة إلكترونية معتمدة وصادرة بدون توقيع من سلطة الترخيص بوزارة الدفاع
Approved electronic document issued without signature by the Licensing Authority in Minstry of Defense.



Q4 095, SAIF Zone Sharjah U.A.E



Hardshell UK Limited,
Unit 1 Columbus Walk,
Brigantine Place, Cardiff, Wales,
CF10 4BY



+971 506339794



enquiry@hardshell.ae



www.hardshell.ae



SAIF ZONE
المنطقة الحرة لمطار الشارقة الدولي
SHARJAH AIRPORT INTERNATIONAL FREE ZONE

حكومة الشارقة
Government of Sharjah

شهادة ترخيص

License Certificate

LICENSE NO.	08460	٠٨٤٦٠	رقم الرخصة
NAME	HARD SHELL (FZE)	هارد شل (م.م.ح)	الاسم
LEGAL STATUS	Free Zone Est. with Limited Liability	مؤسسة منطقة حرة ذات مسؤولية محدودة	الشكل القانوني
TYPE OF LICENSE	Industrial	صناعية	نوع الرخصة
ACTIVITY(S)	Manufacturing of Personal Protective Equipment (PPE)	تصنيع معدات الحماية الشخصية	النشاط
OWNER(S)	Anil Kant	أنيل كانت	المالك
MANAGER	Vinesh Karikkan	فينيش كاريكان	المدير المسؤول
SAIF-ZONE ADDRESS	600 M2 Warehouse Q4 - 095 P.O.Box 121454 Sharjah - U.A.E	مستودع ٢٦٠٠ م٢ كيو ٤-٩٥ ص.ب. ١٢١٤٥٤ الشارقة - أ.ع.م	العنوان في المنطقة الحرة
INCORPORATION DATE	24 August 2010	٢٤ أغسطس ٢٠١٠	تاريخ عقد التأسيس
ISSUE DATE	24 August 2025	٢٤ أغسطس ٢٠٢٥	تاريخ الإصدار
EXPIRY DATE	23 August 2026	٢٣ أغسطس ٢٠٢٦	تاريخ الإنتهاء
REMARKS	THIS LICENSE IS ISSUED AND BASED UPON EMIRI DECREE NO. 2 OF 1995 ISSUED IN SHARJAH ON MAY 8, 1995 THIS LICENSE IS GRANTED TO THE LICENSEE ONLY AND SHALL NOT BE LEASED OR TRANSFERRED WITHOUT PRIOR APPROVAL OF THE SAIF ZONE SALES IN U.A.E SHALL BE IN ACCORDANCE WITH THE AND REGULATIONS THEREOF	هذه الرخصة صادرة استنادا الى المرسوم الأميري رقم ٢ لسنة ١٩٩٥ الصادر في الشارقة بتاريخ ٨ مايو ١٩٩٥ هذه الرخصة ممنوحة للمرخص له فقط ولا يجوز تاجيرها أو تحويلها إلا بموافقة هيئة المنطقة الحرة لمطار الشارقة الدولي تتم أعمال البيع داخل الدولة وفقا للنظم والقوانين السارية فيها	ملاحظات

To check the validity of the license:

- 1- Send an SMS to 2514 with License number.
- 2- Scan the QR code.
- 3- Visit the website:
<https://portal.saif-zone.com/LicenseDetail.aspx>



للتحقق من صلاحية الرخصة:

- 1- رسالة نصية قصيرة (SMS) إلى الرقم 2514 مع رقم الرخصة.
- 2- مسح رمز الاستجابة السريع (QR Code)
- 3- زيارة الموقع الإلكتروني:
<https://portal.saif-zone.com/LicenseDetail.aspx>

هذه الوثيقة رسمية ولا تحتاج لختم أو توقيع وللتأكد من صحة البيانات يرجى زيارة الموقع www.saif-zone.com

This document is official and it does not need to be stamped or signed. To view license detail visit www.saif-zone.com



Hard Shell



Q4 095, SAIF Zone Sharjah U.A.E



Hardshell UK Limited,
Unit 1 Columbus Walk,
Brigantine Place, Cardiff, Wales,
CF10 4BY



+971 506339794



enquiry@hardshell.ae



www.hardshell.ae



SAIF ZONE
المنطقة الحرة لمطار الشارقة الدولي
SHARJAH AIRPORT INTERNATIONAL FREE ZONE

حكومة الشارقة
Government of Sharjah

شهادة ترخيص

License Certificate

LICENSE NO.	22666	٢٢٦٦٦	رقم الرخصة
NAME	HARD SHELL (FZE)	هارد شل (م.م.ح)	الاسم
LEGAL STATUS	Free Zone Est. with Limited Liability	مؤسسة منطقة حرة ذات مسؤولية محدودة	الشكل القانوني
TYPE OF LICENSE	Services	خدمية	نوع الرخصة
ACTIVITY(S)	Project Management Consultancy	إستشارات إدارة المشاريع	النشاط
OWNER(S)	Anil Kant	أنيل كانت	المالك
MANAGER	Vinesh Karikkan	فينيش كاريكان	المدير المسؤول
SAIF-ZONE ADDRESS	600 M2 Warehouse Q4-095 P.O.Box 121454 Sharjah - U.A.E	مستودع ٦٠٠ م٢ كيو ٤-٩٥ ص.ب. ١٢١٤٥٤ الشارقة - أ.ع.م	العنوان في المنطقة الحرة
INCORPORATION DATE	24 August 2010	٢٤ أغسطس ٢٠١٠	تاريخ عقد التأسيس
ISSUE DATE	24 August 2025	٢٤ أغسطس ٢٠٢٥	تاريخ الاصدار
EXPIRY DATE	23 August 2026	٢٣ أغسطس ٢٠٢٦	تاريخ الإنتهاء
REMARKS	THIS LICENSE IS ISSUED AND BASED UPON EMIRI DECREE NO. 2 OF 1995 ISSUED IN SHARJAH ON MAY 8, 1995 THIS LICENSE IS GRANTED TO THE LICENSEE ONLY AND SHALL NOT BE LEASED OR TRANSFERRED WITHOUT PRIOR APPROVAL OF THE SAIF ZONE SALES IN U.A.E. SHALL BE CARRIED OUT IN ACCORDANCE WITH THE AND REGULATIONS THEREOF	هذه الرخصة صادرة استنادا الى المرسوم الأميري رقم ٢ لسنة ١٩٩٥ الصادر في الشارقة بتاريخ ٨ مايو ١٩٩٥ هذه الرخصة ممنوحة للمرخص له فقط ولا يجوز تأجيرها أو تحويلها إلا بموافقة هيئة المنطقة الحرة لمطار الشارقة الدولي تتم أعمال البيع داخل الدولة وفقا للنظم والقوانين السارية فيها	ملاحظات

To check the validity of the license:

- 1- Send an SMS to 2514 with License number.
- 2- Scan the QR code.
- 3- Visit the website:
<https://portal.saif-zone.com/LicenseDetail.aspx>



للتحقق من صلاحية الرخصة:

- 1- رسالة نصية قصيرة (SMS) إلى الرقم 2514 مع رقم الرخصة.
- 2- مسح رمز الاستجابة السريع (QR Code)
- 3- زيارة الموقع الإلكتروني:
<https://portal.saif-zone.com/LicenseDetail.aspx>

هذه الوثيقة رسمية ولا تحتاج لختم أو توقيع وللتأكد من صحة البيانات يرجى زيارة الموقع www.saif-zone.com

This document is official and it does not need to be stamped or signed. To view license detail visit www.saif-zone.com



Hard Shell



Q4 095, SAIF Zone Sharjah U.A.E



Hardshell UK Limited,
Unit 1 Columbus Walk,
Brigantine Place, Cardiff, Wales,
CF10 4BY



+971 506339794



enquiry@hardshell.ae



www.hardshell.ae

RHINO RANGER – MRAP

Engineered In-House. Built to Withstand the Unthinkable.

The Rhino Ranger 3.0 is Hardshell's proprietary Mine Resistant Ambush Protected (MRAP) vehicle, developed entirely in-house by our engineering and R&D teams. Designed from the ground up to deliver unmatched protection and adaptability, it is built to serve as a versatile platform for troop transport, command-and-control, medical evacuation, and specialized missions in the world's most demanding environments.



Figure 1: Rhino Ranger 3.0 reference image

Built for a 10-man crew, the Rhino Ranger 3.0 offers two customizable seating configurations, enabling operators to optimize space for either personnel or mission-specific equipment. This adaptability makes it equally effective as a dedicated infantry carrier or a mission-ready modular platform.

Protection is at the heart of its design. Developed in compliance with internationally recognized standards, the Rhino Ranger 3.0 provides ballistic resistance up to CEN1063 and CEN1522 (U.S. NIJ Level III / CEN FB7/BR7) and blast protection tested to STANAG 4569 Level 2A and 2B. Its armored hull, integrated with a reinforced chassis, ensures resilience against ballistic threats and explosive devices, safeguarding lives even in hostile combat zones.

Performance and mobility are equally uncompromised. Equipped with Hardshell-engineered ISAS axles with active suspension and a Central Tire Inflation System (CTIS), the Rhino Ranger 3.0 demonstrates superior handling, maneuverability, and endurance across rugged terrains and high-risk operational theaters.

As an indigenous, proprietary platform, the Rhino Ranger 3.0 reflects Hardshell's engineering excellence and vertical integration.



Q4 095, SAIF Zone Sharjah U.A.E



Hardshell UK Limited,
Unit 1 Columbus Walk,
Brigantine Place, Cardiff, Wales,
CF10 4BY



+971 506339794



enquiry@hardshell.ae



www.hardshell.ae

Armoring Specifications

- **Construction:** All-welded ballistic-grade steel construction.
- **Protection Level:** Certified to CEN 1063 and CEN 1522 (BR7/FB7), equivalent to U.S. NIJ Level III, protecting against 7.62×51 mm and 5.56×45 mm ammunition at 0° incidence from 10 m.
- **Floor Protection:** Twin-layer armored floor withstands 6 kg TNT equivalent under any wheel, compliant with STANAG 4569 Level 2a.
- **Engine Compartment:** Armored with fast-removable panels for quick maintenance.
- **Fuel Tank:** Protected against 7.62×51 NATO ball, 5.56×45 M193, and 5.56×45 SS109, tested to CEN B6.
- **Vehicle Body:** Fully encapsulated to provide 360° armored occupant protection.
- **Gun Ports:** Ballistic glass windows with internal gun ports for defensive fire.

Armoring Glass & Door Specifications

- **Transparent Armor:** Glass-polycarbonate-Mylar composite, multi-hit protection, high clarity, UV resistance.
- **Doors:** Five heavy-duty armored doors (driver, commander, two side personnel, one rear).
- **Locking System:** Shockwave-resistant locks engineered to resist forced opening.

Body Specifications

Exterior

- Roof turret mounting up to 30 mm cannon.
- Side grab handles, low rear step, two emergency roof hatches, lifting/towing points.
- Reinforced ram bumper, mesh-protected exhaust, running boards, and storage boxes.

Interior

- Reinforced ballistic steel frame with overlap protection.
- Driver and commander seats + six blast-mitigating troop seats with 4-point harnesses.
- Full insulation for -40°C to +50°C, heavy-duty HVAC, dual exhaust fans.

Electrical & Paint Specifications

- **System:** 24V wiring, color-coded, reverse-connection protected.
- **Lighting:** 3 dual-mode dome lamps, 2 headlamps, 2 indicators, 2 tail lamps, 4 brake lights, reverse lamp, fog lamp.
- **Paint:** Polyurethane finish, anti-rust primer gravel coat, UV-protected undercoat.

Advanced Features

- **CBRN Protection (Optional):** Advanced filtration creates Toxic Free Area (TFA) for hazardous environments.
- **ArcticGrip Traction (Optional):** Deployable wheel-mounted chain system for extreme snow/ice conditions.



Q4 095, SAIF Zone Sharjah U.A.E



Hardshell UK Limited,
Unit 1 Columbus Walk,
Brigantine Place, Cardiff, Wales,
CF10 4BY



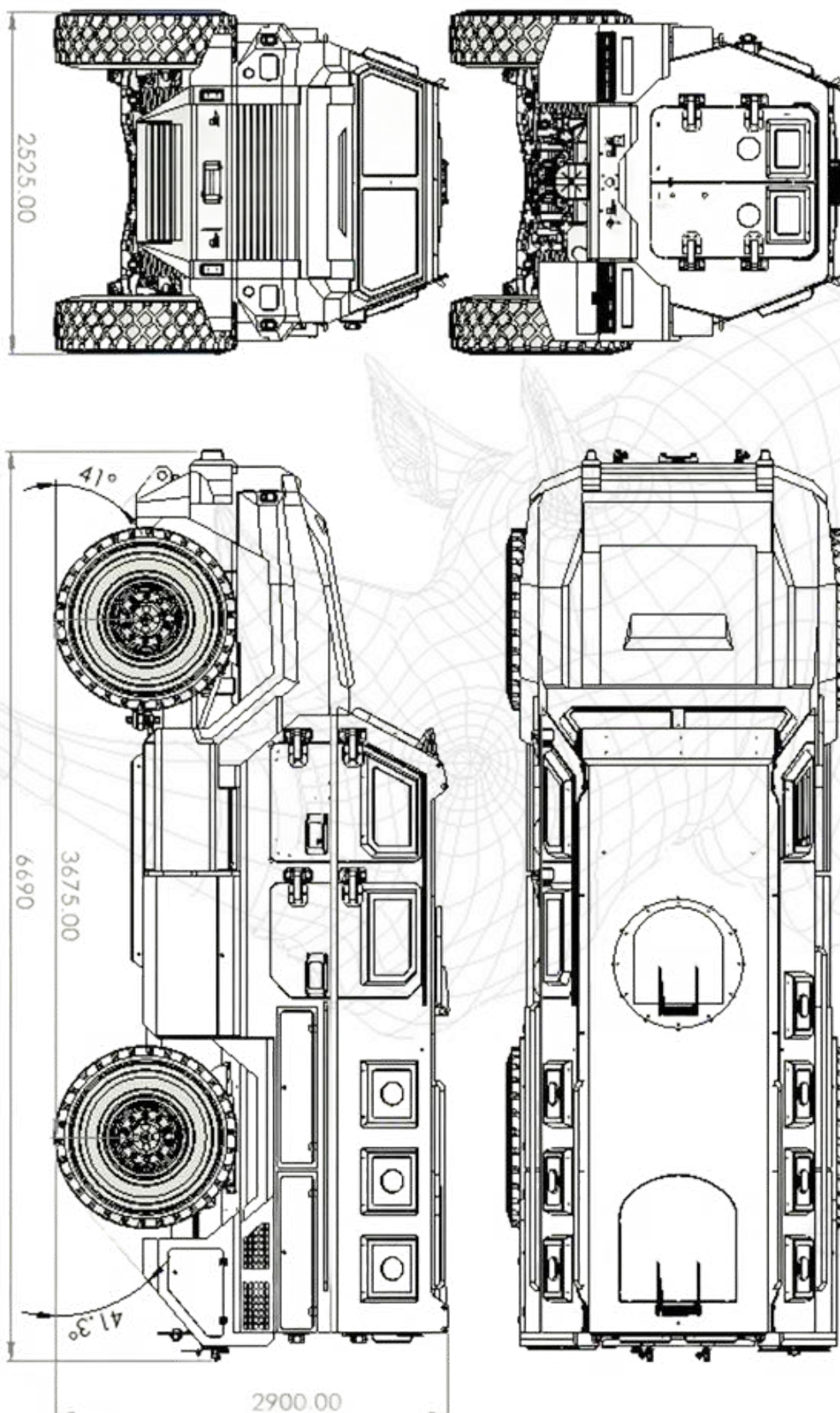
+971 506339794



enquiry@hardshell.ae



www.hardshell.ae



Q4 095, SAIF Zone Sharjah U.A.E



Hardshell UK Limited,
Unit 1 Columbus Walk,
Brigantine Place, Cardiff, Wales,
CF10 4BY



+971 506339794



enquiry@hardshell.ae



www.hardshell.ae

The Rhino Ranger 3.0 stands as a proprietary innovation, combining in-house engineering excellence with internationally recognized certifications.

Design Certification – United Kingdom

The Rhino Ranger is a UK-registered design, formally recognized under the Registered Designs Act 1949:

- Design Number: 6404435
- Grant Date: 25 November 2024
- Registration Date: 14 November 2024
- Registered Owner: Hardshell UK Limited
- Application of Design: Vehicle
- International Design Classification:
 - Version: 14-2023
 - Class: 12 – Means of Transport or Hoisting
 - Subclass: 08 – Motor Cars, Buses, and Lorries
- Certification Authority: UK Intellectual Property Office, signed by Adam Williams, Comptroller-General of Patents, Designs, and Trade Marks

Design Certification – European Union

The Rhino Ranger is also a Registered Community Design, recognized by the European Union Intellectual Property Office (EUIPO):

- Registration Date: 14 November 2024
- Registration Number: 015081034-0001
- Certification Authority: The Executive Director / Il Direttore Esecutivo, EUIPO

NATO Codification

The Rhino Ranger is also officially codified under the NATO Supply Classification system:

- NATO Stock Number (NSN): 2355-99-258-6868
- This codification affirms the vehicle's compliance with stringent NATO standards of reliability, interoperability, and logistics support.
- Being NATO codified elevates the Rhino Ranger as a globally deployable, recognized, and standardized platform for defense and peacekeeping operations.



Q4 095, SAIF Zone Sharjah U.A.E



Hardshell UK Limited,
Unit 1 Columbus Walk,
Brigantine Place, Cardiff, Wales,
CF10 4BY



+971 506339794



enquiry@hardshell.ae



www.hardshell.ae



Intellectual
Property
Office

Certificate of Registration for a UK Design

Design number: 6404435

Grant date: 25 November 2024

Registration date: 14 November 2024

This is to certify that,

in pursuance of and subject to the provision of Registered Designs Act 1949, the design of which a representation or specimen is attached, had been registered as of the date of registration shown above in the name of

Hardshell UK Limited

in respect of the application of such design to:

Vehicle

International Design Classification:

Version: 14-2023

Class: 12 MEANS OF TRANSPORT OR HOISTING

Subclass: 08 MOTOR CARS, BUSES AND LORRIES

Adam Williams

Comptroller-General of Patents, Designs and Trade Marks

Intellectual Property Office

The attention of the Proprietor(s) is drawn to the important notes overleaf.



Intellectual Property Office is an operating name of the Patent Office

www.gov.uk/ipo



Hard Shell



Q4 095, SAIF Zone Sharjah U.A.E



Hardshell UK Limited,
Unit 1 Columbus Walk,
Brigantine Place, Cardiff, Wales,
CF10 4BY



+971 506339794



enquiry@hardshell.ae



www.hardshell.ae

Registered / Registrato 14/11/2024

No 015081034-0001



EUROPEAN UNION INTELLECTUAL
PROPERTY OFFICE
CERTIFICATE OF REGISTRATION

This Certificate of Registration is hereby issued for the
Registered Community Design identified below. The
corresponding entries have been recorded in the
Register of Community Designs.

UFFICIO DELL'UNIONE EUROPEA PER
LA PROPRIETÀ INTELLETTUALE
CERTIFICATO DI
REGISTRAZIONE

Il presente Certificato di Registrazione è emesso per il
Disegno o Modello Comunitario registrato descritto di
seguito. I dati corrispondenti sono stati iscritti nel
Registro dei Disegni e Modelli Comunitari.

The Executive Director / Il Direttore
esecutivo

João Negrão



www.euipo.europa.eu



Hard Shell



Q4 095, SAIF Zone Sharjah U.A.E



Hardshell UK Limited,
Unit 1 Columbus Walk,
Brigantine Place, Cardiff, Wales,
CF10 4BY



+971 506339794



enquiry@hardshell.ae



www.hardshell.ae

FULL TIR DATA
08 JUL 2025

Page - 1

DEFENCE CODIFICATION AGENCY
ACTY CODE: SUBM NO:

NSN 2355-99-258-6868

```

CONVERSION CONTROL CHARACTER.... 0
RECORD DATE..... 03/06/2025 06:41:05
CSC CODIFICATION STATUS CODE..... M
TII TYPE OF ITEM IDENTIFICATION..... M
HZZ HAZARD CODE..... ??
SRI SAFETY RELATED ITEM..... NO
DATE NIIN ALLOCATED..... 30/05/2025 13:08:01
SMD SMD INDICATOR..... NONE
FNU FOREIGN NATION USERS..... NONE
CSU CIVIL/SERVICE USERS..... P
IPT INTEGRATED PROJECT TEAM..... NONE
INC ITEM NAME CODE..... 36857
ITEM NAME..... LIGHT ARMORED VEHICLE
NAME NAME..... LIGHT ARMORED VEHICLE
REF CODIFICATION REFERENCE SET..... 3244A U23X9 RR001
CRN NSN RELATIONSHIP..... NONE
CAI CUSTODIAN ACTIVITY IDENTIFIER... X
CSD CONTROLLING SUBMISSION DETAILS.. X2252UR0001
PCK PACKAGING INFORMATION
SIZE OF PACKAGED UNIT..... 6690 X 2525 X 2900 Millimetre
SIZE OF UNPAKAGED UNIT..... 6690 X 2525 X 2900 Millimetre
WEIGHT OF PACKAGED UNIT..... 10100 Kilogram
WEIGHT OF UNPAKAGED UNIT..... 10100 Kilogram
IIG UK IIG NUMBER AND SUFFIX..... A37500
FIIG US FIIG NUMBER..... A37500
MRC DATA DATE..... 03/06/2025
RPD REFERENCE OR PARTIAL
DESCRIPTIVE METHOD REASON CODE.. 4
CNTJ RATED LOAD CAPACITY..... 4.29 TONS
CPKD VEHICLE MAXIMUM GROSS WEIGHT... 14000.0 KILOGRAMS
AGDH WHEEL QUANTITY..... 4
AGDJ DRIVE WHEEL QUANTITY..... 4
CNTK DRIVE AXLE LOCATION..... FRONT AND REAR
CNTL AXLE DRIVE TYPE..... CONVENTIONAL
CNTQ REAR WHEEL MOUNTING TYPE..... SINGLE
CNTR NOMINAL WHEELBASE..... 3675.00 MILLIMETERS
AKDJ PRIME MOVER TYPE..... DIESEL ENGINE
CNTW MULTIFUEL DESIGN FEATURE..... NOT INCLUDED
ALKK ENGINE BRAKE HORSEPOWER..... 340.0
CXQS ENGINE POWER RATING..... HORSEPOWER 340.0
ALKL ENGINE HORSEPOWER RATING SPEED
IN RPM..... 2800.0
AXJD TRANSMISSION TYPE..... AUTOMATIC
AXJH FORWARD SPEED QUANTITY..... 6
ATWQ REVERSE SPEED QUANTITY..... 1
BTLY SEATING CAPACITY..... 10
AEXR BATTERY QUANTITY..... 2

```

<https://www.ncb.mod.uk/csisapp/ISISPrint.do;jsessionid=2AD4D7D4BC1626EBB9892EB720237427.worker0?windowTitle=TIR+Print+Preview&c...> 1/2



Hard Shell



Q4 095, SAIF Zone Sharjah U.A.E



Hardshell UK Limited,
Unit 1 Columbus Walk,
Brigantine Place, Cardiff, Wales,
CF10 4BY



+971 506339794



enquiry@hardshell.ae



www.hardshell.ae



Q4 095, SAIF Zone Sharjah U.A.E



Hardshell UK Limited,
Unit 1 Columbus Walk,
Brigantine Place, Cardiff, Wales,
CF10 4BY



+971 506339794



enquiry@hardshell.ae



www.hardshell.ae

GLOBAL CLIENTS AND PAST PROJECTS

Hardshell has built its reputation on trust, reliability, and the ability to deliver mission-critical vehicle armouring solutions for some of the most demanding clients in the world. In an industry defined by discretion, we are bound by strict non-disclosure agreements that prevent us from publicizing many of our end-users. However, where confidentiality terms allow, we are able to share select examples that reflect both the scale and credibility of our work.

One of our most prestigious projects has been the armouring of private cars used by the Hon. Prime Minister of India, a responsibility that underscores the faith placed in Hardshell by the highest office of one of the world's largest democracies. We have also undertaken strategic vehicle armouring programs under the UAE Ministry of Defence, where our solutions were tailored to meet specific military and governmental requirements. Beyond this, our expertise has been relied upon by the Government of Somalia, where we delivered vehicles engineered for high-threat operational environments, reflecting our ability to provide protection solutions even in complex and volatile regions.

These projects, along with many others that remain confidential, demonstrate the breadth of our capabilities across different geographies, threat profiles, and client categories. From heads of state and high-ranking government officials to defense forces and international agencies, Hardshell has consistently delivered vehicles that balance discreet design with uncompromising safety. Each project reinforces our reputation as a trusted partner, capable of executing sensitive assignments under the most stringent security protocols.

Confidential photographs of selected projects have been attached separately for your reference.



Q4 095, SAIF Zone Sharjah U.A.E



Hardshell UK Limited,
Unit 1 Columbus Walk,
Brigantine Place, Cardiff, Wales,
CF10 4BY



+971 506339794



enquiry@hardshell.ae



www.hardshell.ae



Q4 095, SAIF Zone Sharjah U.A.E



Hardshell UK Limited,
Unit 1 Columbus Walk,
Brigantine Place, Cardiff, Wales,
CF10 4BY



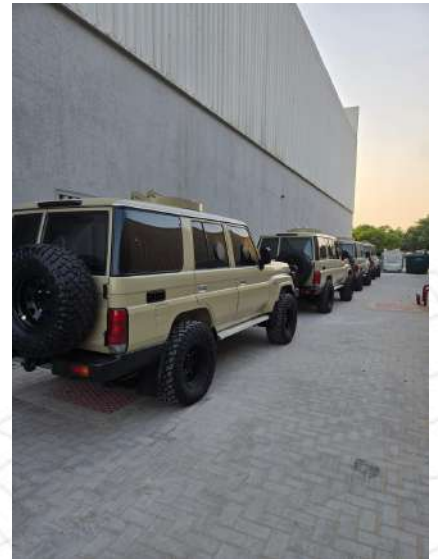
+971 506339794



enquiry@hardshell.ae



www.hardshell.ae



Q4 095, SAIF Zone Sharjah U.A.E



Hardshell UK Limited,
Unit 1 Columbus Walk,
Brigantine Place, Cardiff, Wales,
CF10 4BY



+971 506339794



enquiry@hardshell.ae



www.hardshell.ae

AFTER-SALES SUPPORT AND SERVICES

At Hardshell, our responsibility to clients does not end with the delivery of an armoured vehicle. We recognize that long-term reliability, ease of maintenance, and user confidence are as important as the initial engineering and build quality. That is why we have developed a comprehensive after-sales support program designed to keep every Hardshell armoured vehicle operating at peak performance throughout its service life.

Our support services cover a full spectrum of client needs. From scheduled maintenance and technical inspections to on-demand repairs and upgrades, we ensure that vehicles remain fully compliant with safety and ballistic protection standards. We maintain an extensive inventory of certified spare parts and components, allowing us to provide rapid turnaround on replacements without compromising on quality.

Training is another vital aspect of our after-sales commitment. We offer specialized operator and maintenance training programs to equip clients with the knowledge and skills required to maximize the performance and durability of their armoured vehicles. This includes familiarization with vehicle-specific systems, troubleshooting techniques, and best practices for operational safety in high-threat environments.

With our global presence and strategically located facilities, Hardshell is able to provide responsive support across multiple regions. Whether through our dedicated service centers, mobile response units, or remote technical assistance, we ensure that our clients have access to reliable, professional support whenever and wherever they need it.

By combining technical expertise, responsive service, and a customer-first approach, Hardshell delivers more than just vehicles—we deliver ongoing peace of mind. Our after-sales support ensures that every Hardshell armoured vehicle continues to perform with the same excellence and reliability for which it was originally built.



Q4 095, SAIF Zone Sharjah U.A.E



Hardshell UK Limited,
Unit 1 Columbus Walk,
Brigantine Place, Cardiff, Wales,
CF10 4BY



+971 506339794



enquiry@hardshell.ae



www.hardshell.ae

WHY HARDSHELL

Choosing an armouring partner is a decision that demands trust, precision, and proven expertise. Hardshell stands out as a leader in defence and security solutions by combining world-class engineering with uncompromising standards of quality and reliability.

What sets us apart is our holistic approach. From in-house design and prototyping to precision manufacturing, rigorous testing, and global delivery, every step of our process is guided by a commitment to excellence. Our team of highly skilled engineers and defence specialists bring decades of combined experience in developing solutions that meet and often exceed international ballistic and blast protection standards.

Hardshell's credibility is reinforced by our full regulatory compliance and licenses, including approvals from the UAE Ministry of Defence, which underscore our legitimacy in serving both government and private sector clients worldwide. Our track record includes projects for some of the most demanding end users, from the armouring of vehicles for heads of state to specialized fleet protection for government and security agencies.

Innovation is at the core of our philosophy. We continually invest in research, advanced materials, and modern manufacturing technologies, ensuring our clients benefit from cutting-edge protection systems designed to adapt to evolving threats. At the same time, our flexible production capabilities allow us to tailor solutions to highly customized requirements without compromising delivery timelines.

Beyond products, Hardshell offers long-term partnerships through comprehensive after-sales support, maintenance, and training services. This ensures that every vehicle we deliver continues to operate with peak performance and reliability throughout its life cycle.

With global reach, proven expertise, and an unwavering commitment to client security, Hardshell is more than a manufacturer—it is a trusted partner in protection.



Q4 095, SAIF Zone Sharjah U.A.E



Hardshell UK Limited,
Unit 1 Columbus Walk,
Brigantine Place, Cardiff, Wales,
CF10 4BY



+971 506339794



enquiry@hardshell.ae



www.hardshell.ae