Kevlar® and Nomex®

Titanium and aramid ballistic helmet SHIELD LEVEL IV

Helmet made of Kevlar® ballistic aramid and with a titanium outer cover, high level of armor and kinetic energy dissipation design that makes it unique on the market.

Presentation

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Executive Summary

José Antonio Miguel Señorix opening henergy technologies corp in Dover Delkaware in December 2023 with the idea of looking for new alternatives to the needs of electrical energy, technology and civil logistics and industry.

Business opportunity

- Our helmet is covered in the outer layer with rigid titanium armor plates welded one by one with Tig® in an inert chamber to be used together are designed with the soft armor to offer maximum protection.

  A NIJ IIIA fiber or aramid soft armor panel is very strong, but soft armor alone does not protect against assault rifles and armor-piercing ammunition. Hard armor is required to deal with the type of threats in war zones and terrorist incidents.

- Unique armor level IV thanks to its high-quality Titanium® cover. resistance and its design shape that dissipates kinetic energy and shock waves in addition to facilitating the rebound/deflection of the projectile.

- Our helmet with its Titanium® cover confers level III armor and reaches level IV in some of its edges.

- There is no known similar product on the market that competes in these technical characteristics of shielding and protection.

NIJ Shielding Levels

PROYÉCTILES	NIVELES DE BLINDAJE	ARMAS	TIPO DE MUNICIÓN	MASA NOMINAL	LARGO DEL CALIBRE	VELOCIDAD REFERENCIA	DISPAROS POR PANEL
	I		22 LRHV Lead	2.6 g 40gr	15 - 16.5 cm 6 - 6.5 in	320 ± 12 m/s 1050 ± 40 ft/s	5
			38 Special RN Lead	10.2 g 158 gr	15 - 16.5 cm 6 - 6.5 in	259 ± 15 m/s 850 ± 50 ft/s	5
	IIA		9 mm FMJ	8.0 g 124 gr	10 - 12 cm 4 - 4.75 in	332 ± 12 m/s 1090 ± 40 ft/s	5
			357 Mag JSP	10.2 g 158 gr	10 - 12 cm 4 - 4.75 in	381 ± 15 m/s 1250 ± 50 ft/s	5
	II		9 mm FMJ	8.0 g 124 gr	10 - 12 cm 4 - 4.75 in	358 ± 12 m/s 1175 ± 40 ft/s	5
			357 Mag JSP	10.2 g 158 gr	15 - 16.5 cm 6 - 6.5 in	425 ± 15 m/s 1395 ± 50 ft/s	5
	IIIA		9 mm FMJ	8.0 g 124 gr	24 - 26 cm 9.5 - 10.25 in	426 ± 15 m/s 1400 ± 50 ft/s	5
			44 MAg Lead SWC Gas Checked	15.55 g 240 gr	14 - 16 cm 5.5 - 6.25 in	426 ± 15 m/s 1400 ± 50 ft/s	5
	III		7.62 mm 308 Winchester FMJ	9.7 g 150 gr	56 cm 22 in	838 ± 15 m/s 2750 ± 50 ft/s	5
	IV		30-06 AP	10.8 g 166 gr	56 cm 22 in	868 ± 15 m/s 2850 ± 50 ft/s	1

Technical characteristics of the prototype

- Main base of the helmet in aramid Approved and with NIJ certifications:

1. Kevalr ® Aramid Base Description : The high ballistic helmet protection offers NIJ level IIIA protection, with great capacity

protection against fragmentation.

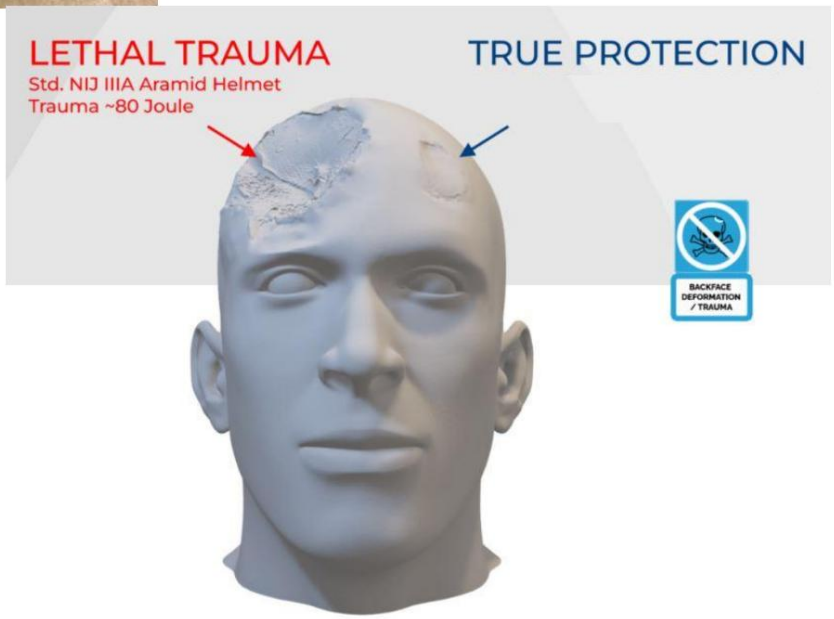
2. . The helmet: • provides increased protection against pistol bullets (9mm and .44 Magnum) and small fragments;

3. Technical specifications: • Shape: MICH • Shell material: Composed of aramid fibers in a composite matrix • Ballistic performance: NIJ Level IIIA (according to NIJ STD 0106.01 / 0108.01) • Fragment performance: V50 > 2130 f/s , 650 m/s, 17 gr. • Ballistic certification: NIJ accredited laboratory • • Cut models: Regular cut, Mid cut, High cut • Weight: approx. according to size in the large 58/60cm = 2.97 lbs (1.35 Kg)+ 3.09 lbs (1.4 Kg) L = 3.2 lbs 1.45 of Titanium® total 2.8kg (we are working on a lighter version)

4. 3.1mm thick Titanium ® outer cover, TA2 TI HIGH PUREZA welded with titanium contribution by means of MIG MAG in controlled atmosphere.

• Sizes: S, M, L, XL • Colors: Black, coyote brown, foliage green, green olive, tan, others on request • Retention / pad system: Standard 4-point H-back (ASPS) with ACH padding system •ACH padding system, EPIC pad system, EPIC air liner system

OTHER HELMETS WITH ONLY SOFT ARMOR



Datos sobre cascos dañados recuperados en combate

77 cascos recogidos:

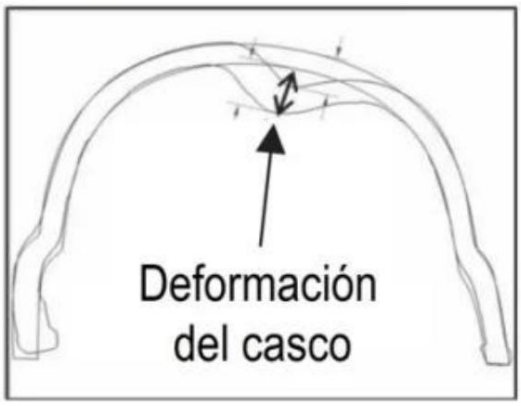
Todos con impactos de proyectiles de armas portátiles
31 casos desembocaron en soldados heridos en combate
45 casos desembocaron en soldados muertos en combate

Resultado balístico	Nº total	Heridos en	Muertos en	%mortalidad
Penetración parcial	16	16	0	0%
Penetración completa	61	15	45	73,7%

Análisis:

Si un casco detenía los proyectiles, el soldado tenía muchas probabilidades de sobrevivir

0% de mortalidad en penetraciones parciales
En penetraciones parciales, ninguna lesión grave por el impacto tras el casco y ninguna lesión grave en el cuello
73,7% de mortalidad en penetraciones completas



Deformación del casco (mm)	Resultado balístico	Resumen de heridas
4.29	Penetración parcial	Sin heridas o con heridas leves y vuelta al servicio
1.52	Penetración parcial	
15.61	Penetración parcial	
15.25	Penetración completa	
2.07	Penetración parcial	
0.48	Penetración parcial	
10.34	Penetración completa	
1.42	Penetración parcial	
23.98	Penetración completa	
5.32	Penetración parcial	
14.99	Penetración completa	
13.68	Penetración completa	
7.41	Penetración completa	
9.66	Penetración completa	
3.02	Penetración parcial	
15.99	Penetración completa	
2.41	Penetración parcial	
3.53	Penetración parcial	
9.53	Penetración parcial	
15.78	Penetración completa	
6.49	Penetración parcial	
11.04	Penetración completa	
9.22	Penetración parcial	
10.12	Penetración parcial	
6.64	Penetración parcial	
17.22	Penetración completa	
9.79	Penetración completa	
13.93	Penetración completa	
0.88	Penetración parcial	

Profundidad media de deformación del casco = 9.02mm

6-point anchorage
with quick adjustment

Our titanium helmets also offer protection against explosions, shrapnel, stabs, impacts and chemicals. On the other hand, all its components are fireproof. The internal helmet system can be precisely adjusted to the user with a movement of the hand by operating the rotary control from the outside. In this way it can be adjusted to 14 different head sizes in just a few seconds

Unit price

- Direct and indirect manufacturing costs €650
- Professional sales price With general expenses and industrial profit €850
- Market sale price: from €1,400 onwards
- Manufacturing capacity (own 60 to 80 units per month and can

expand)

Study Based on the Spanish market, in the European market products of this type are more expensive

Marketing Plan Summary

- Target market:

  (Law enforcement and public and private security and military field)

- Main competition: Only one company manufactures titanium and mixed helmets, it is the battlement company https://www.ulbrichts.com/ , but their product is far from the one presented here, in terms of armor our helmet is superior, of course it is also heavier, and a strong point is that our helmet has an exterior design that provides an enormous advantage since its shape with ridges dissipates kinetic energy and expansive waves in addition to facilitating the rebound/deflection of the projectile. Ulbrichts helmets have a high cost.
- Great competitive advantage

We are looking for investors to carry out the manufacturing and presentation of the product to potential clients internationally.