

True protection saves lives.

ULBRICHTS Titan Helmets for SWAT and police officers.





Real protection for those who protect us.

What is real protection for our action forces? Probably the most important aspect is the protection of life. This means that we need to protect the most sensitive and important part of the body as well as possible: the head. Genuine protection also provides the feeling of mental and physical safety required to fully concentrate on the operation.

The daily life of SWAT and police officers harbours risks that may not be preventable, but can at least be greatly reduced. In the case of ballistic dangers, these are direct hits by a firearm – from a relatively short distance.

Important: Ensuring real protection means that the helmet must not only stop the bullet but also convert its kinetic energy. The deformed helmet can otherwise cause serious or even fatal injuries.

Police officers and SWAT expose themselves to life-threatening situations in order to protect the lives of citizens. It is all the more important to ensure them the best protection.

First Response: Vital protection for the first forces to arrive at the place of action.

Police officers on patrol are there when they are needed. They are always the first to arrive at the place of action and are the police force's first response.

That is why they are particularly uncertain about what awaits them at the place of action. How many offenders? Are they armed? Are they violent or will the situation escalate? Immediate threats from firearms, stabbing or heavy cutting weapons are generally unpredictable or unpreventable – all you can do is protect yourself as well as possible.

That is why Ulbrichts titan helmets not only protect against ballistic threats from firearms.

Special forces, police forces and military forces worldwide wear helmets made by ULBRICHTS Protection. You can rely on the lifesaving protective functions provided by our helmets, and fully focus on carrying out your mission.

Protection areas compared

ULBRICHTS Zenturio C 1300



Aramid / PE ACH Full Cut



ULBRICHTS Hoplit F 1100



Aramid / PE ACH Full Cut



ULBRICHTS Hoplit J 1000



Aramid / PE ACH High Cut



Only one material provides real protection: titanium.

Real protection against projectiles is only possible when

- the bullet is stopped and
- the resulting deformation of the helmet does not cause the wearer of the helmet to be fatally injured (trauma effect)
- the helmet effectively protects the wearer area against these two threats over a large surface.

Only helmets made of titanium are currently able to stop bullets and, at the same time, prevent the helmet from killing the wearer when it is deformed by the bullet. Ballistics tests at neutral laboratories according to the official technical directive (TR 2010) confirm this superiority and produce the best possible results (0-10 Joules), which are far below the permitted value of 25 Joules which is regarded as fatal.

Helmets made of aramid or polyethylene (a composite material based on tissues) protect namely against fragments (e.g. those caused by mortar fire or explosions), but only to a limited extent against bullets. The energy transmitted from the bullet (shot after TR) – if ever stopped – causes massive deformation of the helmet, which mostly lie far (60-120 J) above the survivable limit (25 J).

The infographic illustrates: While helmets made of titanium offer total protection against bullets and trauma across the entire surface of the helmet from 10 mm from the edge, aramid/PE helmets only offer protection all around from approximately 40 mm from the edge and holes. The protective surface of titanium helmets is therefore larger than that of aramid/polyethylene helmets by at least 50 – 100 %. However, the remaining surface of aramid/PE helmets do not generally protect against trauma.

- Actual ballistic protection area (head is not or only slightly injured)
- Bullet deforms the helmet and injures the head due to helmet deformation (fatal)
- Bullet penetrates the helmet and directly injures the head (fatal)

ULBRICHTS – the best ballistic protection for police officers.



Model: Hoplit F 1200



Model: Hoplit F 1100-16H

Hoplit F is equivalent to Hoplit TSO-S

For use in particularly threatening situations within the framework of police patrolling and for scenarios within the framework of special operational situations also demanding reduced weight of personal equipment.

Head Size

Head sizes 52 – 62, continuously adjustable
other sizes on request

Pad and shell system

Alternatively with pad system and shells in three head sizes

Weight

from 1810 grams (weight varies depending on shell type and configuration)

Helmet Colour

Helmet colour may be to customer requirements

Accessoires

The shape of the helmet enables compatibility with encapsulated hearing protection / communication systems; additional accessories such as protective covers for helmet and visor, adapter for camera / light and carrying bag available

Interfaces

Interfacing solutions to NVGs and other accessories available

Webbing

Alternatively with 3-point, 4-point-webbing or BOA-system available

Other Models

This type of helmet is also available with a shell made of
– 100% Titanium (Hoplit F 1200) stops VPAM3 ammunition
– Titanium-aramid (Hoplit F 1200H) stops VPAM4 ammunition

**TESTED AND CERTIFIED FOR PROTECTION LEVELS
VPAM 3, VPAM 4 (TR 05/2010 OF THE GERMAN POLICE)
AND STANAG 2920**

TEST LEVEL 3 – VPAM-APR 2006

Reference ammunition 9 x 19 mm DM41,
8g FMJ, 415 m/s (+/- 10 m/s)

TEST LEVEL 4 – VPAM-APR 2006

STANAG 2920 – FSP 1.1G – V50 > 610 M/S

ADDITIONAL TESTS

7,62x25 Tokarev 5,5g FMJ russ. – 520m/s (+/-10m/s)
7,62x25 Tokarev 5,5g FMJ Fe-Kern russ. – 370m/s (+/-10m/s)
9x19mm Ruag DM41 FMJ – 480m/s (+/-10m/s)
.357 Mag. 10,2g VMKS Geco – 430m/s (+/-10m/s)
.44 Rem.Mag. 15,6g FMJ/FN/SC Speer – 440m/s (+/-10m/s)
9x19mm Bofors, m39b, 6,5g – 430m/s (+/-10m/s)



Model: Hoplit C 1200



Model: Hoplit C 1200-16H

Hoplit C is equivalent to Zenturio TSO-S

For use in particularly threatening situations within the framework of police patrolling and for scenarios within the framework of special operational situations also demanding reduced weight of personal equipment.

Head Size

Head sizes 52 – 62, continuously adjustable
other sizes on request

Pad and shell system

Alternatively with pad system and shells in three head sizes

Weight

from 2030 grams (weight varies depending on shell type and configuration)

Helmet Colour

Helmet colour may be to customer requirements

Accessoires

The shape of the helmet enables compatibility with encapsulated hearing protection / communication systems; additional accessories such as protective covers for helmet and visor, adapter for camera / light and carrying bag available

Interfaces

Interfacing solutions to NVGs and other accessories available

Webbing

Alternatively with 3-point, 4-point-webbing or BOA-system available

Other Models

This type of helmet is also available with a shell made of
– 100% Titanium (Hoplit C 1200)
stops VPAM3 ammunition
– Titanium-aramid (Hoplit C 1200H)
stops VPAM4 ammunition

**TESTED AND CERTIFIED FOR PROTECTION LEVELS
VPAM 3, VPAM 4 (TR 05/2010 OF THE GERMAN POLICE)
AND STANAG 2920**

TEST LEVEL 3 – VPAM-APR 2006

Reference ammunition 9 x 19 mm DM41,
8g FMJ, 415 m/s (+/- 10 m/s)

TEST LEVEL 4 – VPAM-APR 2006

STANAG 2920 – FSP 1.1G – V50 > 610 M/S

ADDITIONAL TESTS

7,62x25 Tokarev 5,5g FMJ russ. – 520m/s (+/-10m/s)
7,62x25 Tokarev 5,5g FMJ Fe-Kern russ. – 370m/s (+/-10m/s)
9x19mm Ruag DM41 FMJ – 480m/s (+/-10m/s)
.357 Mag. 10,2g VMKS Geco – 430m/s (+/-10m/s)
.44 Rem.Mag. 15,6g FMJ/FN/SC Speer – 440m/s (+/-10m/s)
9x19mm Bofors, m39b, 6,5g – 430m/s (+/-10m/s)

ULBRICHTS – the best ballistic protection for SWAT.



Model: Zenturio C 1300H

Zenturio C is equivalent to Zenturio TSO ES

For use in scenarios within the framework of special operations situations. High performance protection against fragments and 360 degree ballistic protection for high risk deployment of police and the military.

Head Size

Head sizes 52 – 62, continuously adjustable
other sizes on request

Pad and shell system

Alternatively with pad system and shells in three head sizes

Weight

from 2300 grams (weight varies depending on shell type and configuration)

Helmet Colour

Helmet colour may be to customer requirements

Accessoires

The shape of the helmet enables compatibility with encapsulated hearing protection / communication systems; additional accessories such as protective covers for helmet and visor, adapter for camera / light and carrying bag available

Interfaces

Interfacing solutions to NVGs and other accessories available

Webbing

Alternative BOA-H-webbing available

Other Models

This type of helmet is also available with a shell made of
– 100% Titanium (Zenturio C 1300) – stops VPAM3 ammunition
– Titanium-aramid (Zenturio C 1300H) – stops VPAM4 ammunition

**TESTED AND CERTIFIED FOR PROTECTION LEVELS
VPAM 3, VPAM 4 (TR 05/2010 OF THE GERMAN POLICE)
AND STANAG 2920**

TEST LEVEL 3 – VPAM-APR 2006

Reference ammunition 9 x 19 mm DM41,
8g FMJ, 415 m/s (+/- 10 m/s)

TEST LEVEL 4 – VPAM-APR 2006

STANAG 2920 – FSP 1.1G – V50 > 610 M/S

ADDITIONAL TESTS

7,62x25 Tokarev 5,5g FMJ russ. – 520m/s (+/-10m/s)
7,62x25 Tokarev 5,5g FMJ Fe-Kern russ. – 370m/s (+/-10m/s)
9x19mm Ruag DM41 FMJ – 480m/s (+/-10m/s)
.357 Mag. 10,2g VMKS Geco – 430m/s (+/-10m/s)
.44 Rem.Mag. 15,6g FMJ/FN/SC Speer – 440m/s (+/-10m/s)
9x19mm Bofors, m39b, 6,5g – 430m/s (+/-10m/s)



Model: Hoplit J 1000H

Hoplit J is equivalent to Hoplit TSO SPP

For use in scenarios within the framework of special operational situations demanding drastically reduced personal equipment weight – high performance protection solution with fragment and ballistic protection for high risk deployment of police and the military.

Head Size

Head sizes 52 – 62, continuously adjustable
other sizes on request

Pad and shell system

Alternatively with pad system and shells in three head sizes

Weight

from 1680 grams (weight varies depending on shell type and configuration)

Helmet Colour

Helmet colour may be to customer requirements

Accessoires

The shape of the helmet enables compatibility with encapsulated hearing protection / communication systems; additional accessories such as protective covers for helmet and visor, adapter for camera / light and carrying bag available

Interfaces

Interfacing solutions to NVGs and other accessories available

Webbing

Alternative BOA-H-webbing available

Other Models

This type of helmet is also available with a shell made of
– 100% Titanium (Hoplit J 1000)
– stops VPAM3 ammunition
– Titanium-aramid (Hoplit J 1000H)
– stops VPAM4 ammunition

**TESTED AND CERTIFIED FOR PROTECTION LEVELS
VPAM 3, VPAM 4 (TR 05/2010 OF THE GERMAN POLICE)
AND STANAG 2920**

TEST LEVEL 3 – VPAM-APR 2006

Reference ammunition 9 x 19 mm DM41,
8g FMJ, 415 m/s (+/- 10 m/s)

TEST LEVEL 4 – VPAM-APR 2006

STANAG 2920 – FSP 1.1G – V50 > 610 M/S

ADDITIONAL TESTS

7,62x25 Tokarev 5,5g FMJ russ. – 520m/s (+/-10m/s)
7,62x25 Tokarev 5,5g FMJ Fe-Kern russ. – 370m/s (+/-10m/s)
9x19mm Ruag DM41 FMJ – 480m/s (+/-10m/s)
.357 Mag. 10,2g VMKS Geco – 430m/s (+/-10m/s)
.44 Rem.Mag. 15,6g FMJ/FN/SC Speer – 440m/s (+/-10m/s)
9x19mm Bofors, m39b, 6,5g – 430m/s (+/-10m/s)



Visor and Rail System

Shroud System

Real protection. For the entire head.

Developed together with our partners, Ulbrichts has been manufacturing ballistic visors for over 20 years. These can either be mounted on the helmet or flexibly attached to the helmet using a bullet-proof adapter system made of stainless steel and removed in seconds again – depending on operational requirements. The visor cut can be customised suit the relevant police unit's requirements. Besides ballistic visors, we also offer lighter "anti-riot visors". They can be used with same adapter system – depending on the operational scenario – as an alternative to the ballistic visors.

Always ready for all eventualities.

Ulbrichts helmets can be configured completely according to your requirements. They can thus be configured with different inner helmet systems and with visor or visor adapters. The helmets can be equipped with a quick-size system or are available in different shell sizes. "Rails" and "Shroud" allow the use of standardised interfaces for night vision goggles, protective face mask, active hearing protection, radio, lamp, microphone, etc. Besides our module range, Ulbricht Protection also manufactures helmets that meet all your requirements on a project basis.

Why are Ulbrichts titan helmets the best ballistic helmets?

Best protection

In the event of ballistic threats, it is especially important that the helmet not only stops the projectile, but also that the head is not injured by the deformation of the helmet or its components.

The residual energy values of Ulbrichts titan helmets are compliant with the technical guideline (TR) "total system ballistic helmet" 05/2010 – their max. 10 joules putting them well below the permissible value of max. 25 joules. They reach only a fraction of the values for conventional aramid helmets, which transfer about 60 to 120 joules at the same reference calibre (9x19 Parabellum) – in a real-life scenario such a value would cause serious injury or death.

100% certification according to TR total system ballistic helmet

All Ulbrichts helmet models are fully certified according to the most modern ballistic testing standard technical guideline (TR) "total system ballistic helmet" 05/2010, which is seeing increasing use in Germany and Europe.

High splinter protection

High splinter protection according to Stanag 2920 V50 > 610 m/s 1.1 g FSP (only hybrid).

Maximum ballistic resistance

The highest ballistic resistance available on the market for ammunition types/calibres in the test stages VPAM 3 (9x19 DM 41 8.0g VM) and for the hybrid model additionally VPAM 4 (.44 Rem. Mag., FMJ 16.2 g FMJ and .357 Mag, KSVM 10.2g). The helmets also passed numerous additional ballistic tests (see product descriptions for detail).

Maximum protection area

Maximum protection area thanks to complete ballistic resistance of the helmet shell from up to a distance of only 10 mm in all models. This means that over 90% of the helmet surface provides an effective area of protection, giving it up a 50 to 100% larger area of protection than an aramid helmet with the same surface area. Titan helmets can also be manufactured with much larger helmet surfaces than was previously possible with aramid or PE.

Ulbrichts Witwe GmbH
Kaufing 34
4690 Schwandenstadt, Austria
+43 (0) 7673 2781 - 160
protection@ulbrichts.com
www.protection.ulbrichts.com



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