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German
Special Forces
(DEU SOF)
Compendium
2019

The German Armed Forces’ (Bundeswehr) Special Operations Forces (DEU SOF) play a significant role and, in recent years, have been given greater responsibility for planning and conducting worldwide operations.

In cooperation with the Bundeswehr, this Compendium provides the most comprehensive coverage of the people, technologies, training & exercises and future planning & development that shape the DEU SOF community through exclusive analysis pieces and in-depth features.

Features and topics include:
- Overview of the three main components that make up DEU SOF: Army Special Operations Command (Kommando Spezialkräfte, KSK), Naval Special Forces Command (Kommando Spezialkräfte Marine, KSM) and Air Force Helicopter Wing 64, No. 4 Squadron (4HSG64, dedicated special operations support).
- Equipment to conduct and support special operations.
- DEU SOF in NATO and in international operations.
- DEU SOF training & exercises.
- Future planning & development.

Special operations are military operations requiring unique modes of employment, tactical techniques, equipment, and training. These operations are often conducted in hostile, denied, or politically sensitive environments and are characterised by one or more of the following elements: time sensitive, clandestine, low visibility, conducted with and/or through indigenous forces, requiring regional expertise, and/or a high degree of risk. MILITARY TECHNOLOGY’s DEU SOF Compendium will be available in time for the KSK Symposium in September 2019.

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Shown: Schuberth P100N Modular System.
(Image: Schuberth Helnets)
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(Photo: Daniel Technologies)

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“The Federal Police is Becoming More and More Attractive”

The Police Protection Tasks Abroad unit of the German Federal Police, part of Federal Police Directorate 11, conducts its tasks in crisis areas, as was evident in its former designation ‘Personal Protection Ausland’ (PSA). This refers mainly to the protection of embassies and embassy staff. In a recent interview at Federal Police headquarters in Sankt Augustin, Col Reimund Gans, Police Director and Head of the unit, explains how today’s service has evolved and expanded on the tasks it is mastering abroad.

SD: Do you have the right equipment in Afghanistan for surveillance tasks – such as drones? Can you draw on such resources that the Bundeswehr has in inventory in Afghanistan?

R. Gans: We have a very good relationship with the German Armed Forces (Bundeswehr). There are various units in Afghanistan that use such assets. We support each other. The Consul General is NATO’s highest civilian representative in northern Afghanistan and often travels with the commanding general. It is also in the interest of the Bundeswehr that long distance journeys are accompanied appropriately. We always create a day-to-day risk assessment before each mission, incorporating multiple sources. The drone is more of an additional safety component because it provides real-time footage and can determine developments. We have had a very positive experience with the cooperation to date.

SD: The officers we saw in the video presentation here in Saint Augustin, are they always on the road with full equipment?

R. Gans: There are missions in which a bodyguard is specifically required. The officer closest to the protected individual we call a ‘bodyguard,’ since he is equipped as and performs as a civilian – others refer to him as an ‘evacuator’ or ‘companion.’ When I look at Afghanistan, the security situation in Kabul, in particular, has somewhat deteriorated. It has improved in Baghdad, where 80-90 incidents a day were not uncommon just 15 years ago. I was employed there myself as a unit leader with GSG9. It is a very interesting time, because ISIS [Islamic State] remains present and there is evidence that smaller cells have crept into Baghdad. At the moment, though, it seems relatively quiet there.
This could change at any moment, however. In Baghdad, we also conduct a risk assessment before each trip. Even if our team drives with the ambassador to the ‘green zone,’ a distance of just under 5km, [intelligence] information is matched and re-evaluated before each trip. There have been many demonstrations in Baghdad in recent months. We want to suddenly find ourselves confronted with a demonstration interfering with the convoy. Such situations can escalate very quickly and we have to prevent opportunist setting a Magnetic IED [Improvised Explosive Device].

SD: How do you then evaluate the most up-to-date information on the situation?
R. Gans: We have a lot of sources. The security advisers at each site have a very wide network. There are service providers that provide location information. There are plenty of possibilities and there are other security partners with whom we maintain close contact on the ground. This is then incorporated into the current situation assessment. This can be a very long process. For example, in Iraq, the German ambassador presides over a commission for the reconstruction of the areas liberated from IS. This means the commission meets in those areas, examining the extent to which reconstruction is progressing and determining which projects might be launched there.

That means the ambassador has to go there. These are then locations like Mosul or Fallujah, the latter having tragic memories for us, since we lost two comrades there in 2004. Before driving to these areas, information collection and evaluation alone is a longer process. We have been to Mosul several times and the briefing can take over an hour; I took part in one myself when I was there just for the supervision of the service. Everyone needs to know the processes and what forces you are likely to encounter there. These are not always regular army forces – there are plenty of militia on the ground. Questions then arise: how do you recognise them? how is the convoy constituted? what can be expected there? Which bridges are still passable? We had up-to-date information from Dutch forces, who had been there shortly before, for example, about the bridge situation in Mosul.

That sort of intelligence cannot be derived purely from desk research. In 2008, the ‘Unit 44 Protection Tasks in Crisis Areas SIK’ was established within the Federal Police Directorate. This led to the integration of PSA into GSG9 in 2013. Gans emphasises that these were two separate services under the designation ‘Special Forces Federal Police’. Finally, on 1 August 2017, Directorate 11 was commissioned and the PSA/GSG9 construct disbanded. Since then, the service has been operating under the designation ‘Police Protection Tasks Abroad’.

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SD: Do you have enough staff in the embassies?
R. Gans: We could not provide personal protection with the staff on the ground at the embassies. Nor do these colleagues have the appropriate training. For instance, regarding property protection and consulting: since the 1970s, the BGS [Federal Border Protection] and today the Federal Police have supported the Foreign Office on property protection issues. Previously, the ‘House Rules and Property Protection Service,’

The headquarters of Theon Sensors Deutschland are in Kempen, near Dusseldorf, being strategically located for easy and quick access to all its customers in Germany and neighboring countries.

Theon Sensors is part of EFA Group, which consists of companies that have a leading-edge position in the international markets in the fields of aerospace, security, defense and industrial cooperation. EFA Group employs more than 200 people in total and has established itself as a leader in its field in more than 40 countries worldwide. EFA Group includes Theon Sensors and also EFA Ventures (Industrial Cooperation Projects), SCTYALYS (Data links, Interoperability, Command & Control Systems), ES Systems (Sensors based mainly on MEMS and IoT), Aerospace Ventures (Industrial & Technology Participation), and the Epicos global B2B information platform for the ADHT Industries. Therefore, the activities of all EFA Group companies will be supported by the new Theon Deutschland subsidiary.

THEON SENSORS is a world-renowned and recognized manufacturer of electro-optical night vision systems used by military and law enforcement customers in more than 40 countries around the world. The development and production of the systems is made in Athens, Greece, whereas its worldwide business activities are supported by now three subsidiaries, in Germany, Abu Dhabi and Singapore, with co-productions facilities in Middle and Far East. Theon Sensors is part of EFA Group.
(HOD), was responsible. Now it is called the ‘Security Office Foreign Representation’ (SAV) and in crisis areas KSAV. Since 2017, KSAV has also been co-located with us. Prior to that, GSG9 was responsible for training and equipment, with the Federal Police Headquarters in Potsdam. That, too, was a very complex mechanism.

We said very early on that this all belongs together – “security from a single source.” Quite simply, there cannot be several organisations of the Federal Police there, including the post of security adviser, which has been around since 2004. The Foreign Office had an additional need for police expertise, so GSG9 developed the ‘security consultant.’ Initially, there were many GSG9 alumni who stepped into this function, but they now come from all areas of the Federal Police.

Security consultants are partly responsible for several locations and are supplemented by the so-called ‘SAV 2.0’ – security advisers, but responsible for only one site. These are recruited from suitable middle-ranking officers.

Within my department we have a small management group with responsibility for deployment, police technology materiel management, training and internal services. In addition, the personal protection staff belongs to our department and has permanent representatives here. All other forces – security advisors, SAV 2.0, KSAV and SAV – are located in pools and are seconded by their services to the appropriate operational sites by Directorate 11. In addition, we take over the training for the forces deployed in crisis areas.

We do not have these powers in daily service, however; only when they are operational or with us in training. That, too, requires a little perspective, because we work for the Foreign Office and these forces are seconded to the Foreign Office. The Foreign Office could therefore, in theory, entirely refrain from employing our expertise, but in fact seeks our advice and know-how in police matters. We also do not give up assets and then take them back, but are in a state of permanent
exchange with specific reference to the Federal Police. This is all done by mutual agreement with the Foreign Office.

SD: Do you have problems attracting young talent?
R. Gans: Things are looking quite good at the moment, but we also have a lot of departures. The Federal Police is becoming more and more attractive. The service has to find suitable candidates for a variety of specialist roles: GSG9; the air service; us; flight security officers; BFE and BF + [evidence and arrest units]; international operations units. You could say, perhaps, the Federal Police has become too attractive. Just like other organisations, we are in constant competition for the best people. The efforts we make for advertising for young talent are enormous.

SD: If Syria or Mali were to calm down in a year’s time, embassies will certainly be set up there again. Do you have enough staff to do that?
R. Gans: Right now, we would have a problem with that. We would need to recruit and train more staff. However, there are other ways to ensure security for our overseas representatives. For example, we can work with service providers, but we would always deploy liaison officers or qualified security advisers who can conduct situation assessments and who can assess the risk on the ground.

SD: Do you work with other institutions, such as intelligence agencies, to improve the situation of your department?
R. Gans: No. We sit on an APPS, Association for Personal Protection Services, a network for international personal protection units. However, it is essentially about ‘normal’ personal protection, with a ‘High Risk Environment Group,’ in which we and the Dutch are also involved. There, we exchange ideas worldwide and also have an internet-based platform operated by EUPOL.

SD: What is the situation regarding personal equipment?
R. Gans: Currently, we are connected to GSG9 in terms of all logistics. If the time comes, we will have our own caseworkers with us in the service later. Some of them are already in post or have just started their service and are being instructed for the function. Current requirements go through GSG9’s coordination unit and from there via normal channels to Directorate 11 and the Presidency of the Federal Police. Of course, we are always considering current developments and opportunities for improvement. For example, the relevant topic is the rifle. We are happy with the G36. It is a good weapon. But there are other calibres that would be better suited to our requirements for deployment in crisis areas.

SD: SIG Sauer and Heckler & Koch in Germany, FN Herstal across the border?
R. Gans: What has become apparent is that the .300 calibre could meet our requirements – and we hear a lot of good things about the SIG Multi-Purpose Carbine.

SD: The MCX?
R. Gans: Exactly. This is supposed to be quite a high-end product, from what I have heard. But of course, we formulate needs and then find the appropriate products – not the other way around.

SD: When it comes to personal protection, you will be looking further afield?
R. Gans: We have lightweight ballistic helmets and protective plates, and recently changed plates because there was a new material that is lighter. The cost of this ‘foreign additional equipment’ is covered by the Foreign Office.

SD: Do you see yourself and your department in five years?
R. Gans: That is not easy to answer. I fear that the security situation in some countries will not have improved in five years’ time and we will have more locations to manage. Whether we will be able to fill them all with forces of our own, I really cannot say at that moment. We are monitoring the various situations, such as the southern Sahel Region or developments in Syria and Yemen. In Yemen, we have closed our embassy, as well as the one in Libya. We were among the last to be withdrawn from these two countries. The ambassador in Yemen at the time tried to make a difference and use his influence until the very last day. Every day I see on the news what is going on in Yemen: not good news….

SD: Thank you.
On 8 February, UF PRO announced its new HUNTER Gen.2 Tactical Sweater, a lightweight and feature-rich sweater that is designed to keep the wearer warm and dry during the damp, cooler days and nights common during early to mid-spring and again during the autumn.

According to Armin Wagner, Head of Product Development for UF PRO, “this is the sweater you’ll be glad you’re wearing when you’re out in the field on a mission this March and April or later in October and November – those times of year when it’s still too cold for a combat shirt but no longer cold enough for a well-insulated jacket.”

The UF PRO HUNTER Gen.2 Tactical Sweater does more than provide warmth, as it is water-repellent and 100% windproof, so wearers can expect to stay dry under foggy, misty or drizzly skies and be shielded from the effects of blustery breezes. Furthermore, body sweat that comes into contact with the sweater’s uniquely formulated, lightweight thermal lining dries so quickly that wearers may not even realise they perspired. “The thermal lining is made from COCONA Inc. 37.5 microfleece, a 100% polyester fibre,” Mr Wagner disclosed. “We chose it because of its superior performance characteristics in the kinds of situations for which the HUNTER Gen.2 Tactical Sweater is designed to be worn.”

Other fabrics used are 100% polyamide in the exterior face fabric, and, for boost to abrasive resistance, the company reinforced the sides with 100% nylon mesh starting at the armpits and extending down to the waist. Weighing slightly more than half a kilogramme, the tactical sweater folds into a pocket measuring twice as many pockets on the upper and lower arms as one would expect. The effects of blustery breezes. Furthermore, body sweat that comes into contact with the sweater’s uniquely formulated, lightweight thermal lining dries so quickly that wearers may not even realise they perspired. “The thermal lining is made from COCONA Inc. 37.5 microfleece, a 100% polyester fibre,” Mr Wagner disclosed. “We chose it because of its superior performance characteristics in the kinds of situations for which the HUNTER Gen.2 Tactical Sweater is designed to be worn.”

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UF PRO Details HUNTER Gen.2 Tactical Sweater

Stand: 12-416

The UF PRO HUNTER Gen.2 Tactical comes with elastic cuffs and with twice as many pockets on the upper and lower arms as one would expect.

Next year, NEXTORCH unveiled its latest model of the well-known SAINT TORCH Series, the SAINT TORCH 30 tactical LED searchlight. Founded in 2005, NEXTORCH is a global leading brand of high-end, portable lighting products in law enforcement, military, hunting, outdoor and personal use. The company acknowledges that the firm is looking to the military and public security markets as a potential growth opportunity. A key feature of the SAINT TORCH 30 is its 4x2,600mAh (14.8V) rechargeable lithium-ion battery pack that can be easily separated from the torch, allowing it to be used as a portable power bank with IPX-7 waterproof. NEXTORCH confirmed that the product’s quick charge technology enables the user a full charging time of only three hours. “We are showing that our new rechargeable search torch is according to the requirements of the customer,” the company noted. “We are showing that we have the sensitivity to supply the customers with the mission-critical equipment they need for fulfilling their tasks.”

It was also confirmed that the SAINT TORCH 30 offers the best compromise between weight (approx. 728g with battery), output (105-5,600 lumens), and range (max. 480m), all of which representing key features of a high-performance, cost-effective, low-light solution.

NEXTORCH Searchlight Sparks Interest

CamelBak unveiled two new packs designed and built around the Mil Spec Crux Lumbar Reservoir at AUSA 2018: SPARTA and MOTHERLODE. The Mil Spec Crux Lumbar Reservoir takes an entirely new approach to where the soldier carries their water, by moving the water weight low and onto the hips. By lowering the reservoir location, the user is able to improve their centre of gravity. The MOTHERLODE and SPARTA come in 40l (20.9x13.4x12.2in/53x34x31cm at 4lbs/1.8kg) and 33l (19.7x12.2x11in/50x31x28cm) at 3.6lbs/1.6kg) cargo capacities respectively and each feature the 3l Mil Spec CRUX Lumbar Reservoir (delivering 25% more water per sip compared to the current CamelBak Mil Spec ANTIDOTE Reservoir; also featuring the patented BIG BITE valve with a self-sealing single-piece silicone design) with zippered back panel access that makes loading and unloading the reservoir into the hydration compartment easy even if the pack is full of gear.

New laser-cut MOUNTAIN M.O.L.L.E. panels provide an easy to use secure attachment locations for additional accessory pouches. Both packs use 500D double-rip Invista Cordura fabric for the ultimate combination of strength, weight and durability.

CamelBak’s Entire Tactical Pack Collection

Redesigned & Reengineered

Stand: 12-106

CamelBak delivers 25% more water per sip compared to the company’s current Mil Spec CRUX Reservoir, also featuring its patented BIG BITE Valve with self-sealing single-piece silicone design and a brand-new cap and handle boast, “the widest opening on the market,” according to the company, making cleaning and refilling easy and effortless.

Sparta is a 33l pack designed to be the best pack for day missions and includes an integrated lumbar reservoir. This lumbar reservoir design places one of the heaviest pieces of gear, water, low and stable around the wearer’s hips for a lower centre of gravity and better load-carry.

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New laser-cut MOUNTAIN M.O.L.L.E. panels provide an easy to use secure attachment locations for additional accessory pouches. Both packs use 500D double-rip Invista Cordura fabric for the ultimate combination of strength, weight and durability.
Ensuring Sustainable Product and Service Quality
“Made by WELP”

In an interview with Ronald Gerschewski, CEO WELP Group, Enforce Tac was informed that the company offers customers the services of all five of the group’s locations in Europe.

SD: What significance has the German defence and security market for WELP Group?
R. Gerschewski: Whereas in former times, mainly foreign regions were supplied, the European and German market have become more important for such products within the last three years, which is due to diverse procurement programmes initiated by the authorities.

SD: What characterises the holistic approach of the WELP Group of companies in comparison to other competitors? In particular, I am thinking of the Group’s competencies to represent all stages of automobile production – from design to serial production.
R. Gerschewski: We believe that mainly the automotive background of our company represents a substantial difference to our market competitors. On the basis of our experience gained of meanwhile 40 years as developer, prototype constructor and tool manufacturer, as well as serial supplier for the automotive industry, WELP Group is trimmed for innovation, efficiency, and quality. Customers from the security sector can benefit from this experience since our Armouring Division develops and manufactures its products on the basis of dynamic automotive requirements and of material competences of the group of companies. This particularity mainly becomes obvious for safety products, which we develop as system supplier for the automobile manufacturers.

SD: How fast are you able to supply civil armoured vehicles – taking into consideration customer-specific modifications – for a potential demand in Germany? Can you comment on the example of armoured vehicles already delivered for SEK units in the State of Saxony?

R. Gerschewski: Of course, this depends on a large scale on the product enquiry itself. If our Group has already developed a suitable armouring solution as armouring kit for the base vehicle in question and if we can grab from our modular kit for specific requirements or safety-relevant special equipment, the implementation is feasible within weeks or months. Honestly speaking, the numerous details requested are often crucial for the delivery time. The vehicles for the SEK could be handed over within a year including new development of some specific requirements. Complete new development and testing of an armoured vehicle takes longer. Currently, we have approximately 16 vehicle armouring combinations in our basic offer that can be combined with modules of a comprehensive equipment list.

SD: Does WELP Group associate the marketing of its products for a (potential) German customer a close cooperation with other (even military) companies or partners in Germany?
R. Gerschewski: Our success as system supplier of mainly civil armoured vehicles is based considerably on the great added-value depth within our group of companies. But of course, we work together on a basis of trust with partners and suppliers of specific areas, for example for radio technology, electronics, or vehicle registrations.

SD: What does the marketing strategy for potential military customers (Special Forces) look like?
R. Gerschewski: First of all, our customers look for a partner who bears the overall responsibility for the requested product. The structure and added-value depth of the Group offers a good basis, which is completed by our comprehensive competence in the development and manufacturing of armoured vehicles and modules as well as other special purpose vehicles.

WELP Group consists of Farmingtons Automotive GmbH, IndiKar Individual Karosseriebau GmbH, pgam advanced technologies Ltd., Dressel + Höfner Automotive GmbH and S.C. Dressel + Höfner International S.R.L and develops and manufactures tailor-made solutions for the industry and automotive industry. The group is one of the premium suppliers to numerous car and commercial vehicle manufacturers, also having a comprehensive competence in the development and manufacturing of armoured vehicles and modules as well as other special purpose vehicles.

CAD view of a specially-protected Toyota Land Cruiser 200, with the grey area depicting the armour cabin in VPAM VR9/BRV2009.
In-house material development utilises an internal material laboratory with a shooting range, in which loading plates and vehicles can be checked.

Involving trustful suppliers and cooperation partners. Consequently, the customers obtain both in the primary market and the aftermarket, as well as in training and service features, provided by one responsible contact.

**SD:** How does the testing of material combinations take place in all development and manufacturing phases?

**R. Gerschewski:** Our colleagues from the Development and Quality Division are very familiar with diverse tools for ensuring quality processes of the automotive industry. The planning for these processes already starts at the development stage and continues to the final inspection of the vehicles. Protection material, as well as its connection technologies – such as welding, bonding and others – is subject to special testing. Our in-house material development is responsible for that by using our internal material laboratory and shooting range, in which we can test not only armour plates but even entire vehicles. Apart from own testing and ballistic and blast certification, external institutes and educational establishments for development, testing, and quality assurance will be consulted.

In order ensure a high production quality, inspection during production is carried out permanently or on a random basis. Comprehensive sensors and infrared cameras ensure permanent monitoring of the production processes.

**SD:** What significance has the topic of quality management and what are your standards?

**R. Gerschewski:** The topic of quality management is of course enormously important, as we guarantee safety with our products for our customers. The quality management already starts in the development and extends to the operation of the vehicles. Internal and external audits help us review and improve our processes regularly to cope with any requirements at any time. We combine standards of the automotive industry with subject-specific standards of the safety industry. Examples include: DIN 2303 Q1+Q2; DIN 2303 class Q3 for diverse processes; ISO 3834-2, ISO 14001, ISO 5001, IATF16949, and ISO 9001.

**SD:** Are there any considerations with this complex know-how to target the international market that is increasingly coming into focus? How do you manage that and where do you set (regional) priorities?

**R. Gerschewski:** Basically, we already do that. Currently, our foreign activities are strongly marked by the demand of our customers from international NGOs or other German customers. There are some activities at European locations and in the Middle East. We are going to extend our existing sales and partner network here significantly in the near future. Own foreign locations – also for local content requirements – are conceivable scenarios, too. There are discussions with local partners. The main point is that our growth results organically, which, in first instance, means that we manage our activities ourselves and integrate them in order to place our corporate values equally at all locations. Only this ensures sustainable product and service quality „Made by WELP“.

**SD:** Thank you.
Holosun Details New Micro Reflex Sight

The battery-powered HS503GU runs on one CR 2032 battery for up to an amazing 50,000 hours of use. The HS503CU ELITE is solar powered and features Holosun’s Advanced Solar Fail Safe, which operates from solar cell power, yet draws from a battery if the light source is insufficient.

In 2018, Holosun Technologies unveiled its HS503GU Elite and HS503CU Elite micro reflex sights, which are perfect for AR- and AK-users, as these two micro sights are part of Holosun’s new ELITE line of optics. All ELITE optics feature Holosun’s Green LED Emitter for extremely high visibility in all conditions, plus Holosun’s SHAKE AWAKE technology. SHAKE AWAKE switches the optic into the “sleep mode” after a pre-set amount of inactivity, then automatically powers back up at the slightest movement.

Both the HS503GU ELITE and the HS503CU ELITE micro reflex sights feature a 65-MOA circle-dot reticle with a 2-MOA centre dot, which can be switched to a 2-MOA dot only, and 10 daylight and two night-vision brightness settings. Parallax free with unlimited eye relief, the micro sights can be adjusted up to 50-Minute of Angle. The strong 6061T6 aluminium housings will withstand years of hard duty, while the units can operate in temperature extremes of -22 to +140 Fahrenheit. The multi-coated lenses create sharp, clear images in all weather conditions.

All these features in units weighing just 3oz apiece.

Kroko Tactical Details M-4029 Plate Carrier

Kroko Tactical presents its products and solutions at this year’s Enforce Tac. Serving the Croatian Armed Forces, Croatian police, manufacturing more than 300 of their own product designs, developing and offering new solutions of apparel, tactical and ballistic equipment, camouflage patterns, backpacks, holsters, belts and other specialised equipment, the company has made quite an impact for themselves.

Although already widely used by (US) armed forces MRAPs and APCs, the European CAV-market has been slow to adopt this easy-to-install product. TSS and SkyDex are happy to now be able to help keep NGO staff and security forces safe and mobile, even after surviving an IED blast.

A special development for law enforcement sniper application, Beretta’s Sako brought Tikka T3x TAC A1 precision bolt action rifle to Enforce Tac. It is based on Sako’s famous Tikka T3 bolt action construction, but made to meet the new increasingly challenging requirements of long range tactical shooting.

Fully modular and therefore fulfilling all operational requirements, the aluminium chassis stock system is compatible with most common type AR fore-ends, pistol grips and rear stocks.

It offers a foldable rear stock with quick adjustable cheek piece and adjustable length of pull. The muzzle is threaded for attaching muzzle brakes and/or suppressors.

In operations with multiple organisations in Europe, the T3x TAC A1 provides straight-forward performance and ruggedness with just the right amount of adjustability and absolute precision, all in a light-weight and compact package.

TSS International Shows SkyDex Shock Mitigating Floor Mat

TSS International, vehicle mobility specialist from the Netherlands, is showcasing SkyDex shock mitigating floor mats at Enforce Tac 2019’s stand 202 in hall 12. This survivability-enhancing product can be used in Civilian Armoured Vehicles (CAVs), such as the Toyota LANDCRUISER 200. Placing these Convoy Decks on the armoured vehicle floor drastically reduces the danger for the vehicle’s occupants when a vehicle is struck by an under-vehicle IED. The blast causes a shockwave which can move the armoured floor as much as 4cm in a fraction of a second, potentially crushing heels and lower legs: injuries often leading to amputation of limbs.

Although already widely used by (US) armed forces MRAPs and APCs, the European CAV-market has been slow to adopt this easy-to-install product. TSS and SkyDex are happy to now be able to help keep NGO staff and security forces safe and mobile, even after surviving an IED blast.

In other developments, TSS is proud to announce the first-in-kind FINABEL-tested runflat under a load of 2000kgs for a Toyota LandCruiser 200. TSS’ rim AR877-HR is designed to carry the weight of the ever increasing protection (including VR10) of the armoured Toyota LC200, with more platforms to follow.

Visit www.TSSH.com for more information on SkyDex, TSS Heavy Duty Wheels and more Armour Mobility Products, such as MOVIT Security Brakes (see picture), Rodgard Runflat Inserts, B&G Vehicle Intercoms and Self-Sealing Fuel Tanks.

You can also visit TSS International B.V. at the annual Enforce Tac Exhibition in Nuremberg on stand 202, hall 12.
**Hensoldt Presents New ZF 1-8x24 Sight**

Hensoldt Optronics (booth 12-445) is showing its new ZF1-8x24 telescopic sight here, series production of which could start as early as the third quarter of this year, the company announced today.

Offering an integrated red dot and a reticle that can each be separately illuminated, the ZF1-8x24 is ideally suited for specialist shooters. The ZF 1-8x24 offers the smallest variable magnification in the Hensoldt portfolio. It was developed for short to medium ranges and is thus perfectly suited for the designated marksman and police forces, explained the company’s Head of Handheld Sight Systems, Frank Topp.

In this system, one-time magnification works like a red spot sight with a wide field of view. The shooter fires with both eyes open. In the ZF 1-8x24, the reticle is in the first image level, while the red spot is in the second image level and does not grow as the magnification is increased, so it does not conceal the target. “As soon as the shooter chooses a magnification from 1.3, the red spot is switched off and the reticle is illuminated. The illumination setting can be fixed at any desired position but the illumination does not increase,” added Mr. Topp. The new telescopic sight also offers a detent that can be locked at the null position for elevation and lateral sight adjustment turrets.

**Meggitt Training Systems Exhibit Portable, Small-Arms Simulator**

Meggitt Training Systems conducts demonstrations of its FATS 100P portable simulator during its first visit to Enforce Tac on stand #12-129.

Leveraging key features from the US Army Engagement Skills Trainer II and US Marine Corps Indoor Simulated Marksmanship Trainer Programs of Record, the FATS 100P delivers a significant expansion in virtual small-arms training capability and is ideally suited for use by European law enforcement departments.

“As tactical law enforcement challenges evolve, Meggitt is leveraging in-house expertise and customer feedback to expand its line of simulators from the immersive FATS 300 and 180 to the portable 100P,” said Matt Cunningham, Meggitt’s Director of Virtual Systems Sales. “Enforce Tac visitors to our stand can learn more, especially how the FATS 100P facilitates training resource sharing among units, as well as enables field deployment for easy set-up in a room that’s not a dedicated training space.” Mr Cunningham was interviewed in SHOW DAILY Day 1.

The FATS 100P features advanced functionality for both instructor and trainee, delivering weapon handling and shot placement analytics, marksmanship automatic coaching tools, video-based judgmental training for escalation and de-escalation, and enhanced graphic capabilities, all in a compact package. Portable and light, the FATS 100P comes in two rugged hand-carry cases the size of a large range bag that allow easy transport, set-up and operation by one person.
Enforce Tac in Pictures
(Photos: DPM)
CamelBak Debuts Mil Spec QUICK STOW Flask

Carrying 500ml of hydration, the Mil Spec QUICK STOW Flask is big enough to keep the user hydrated even in low profile environments where a pack might draw attention but carrying water is essential.

CamelBak launched its first soft-sided collapsible bottle, Mil Spec QUICK STOW Flask at AUSA 2018. CamelBak began developing a hydration flask specifically suited for the military and tactical user after receiving countless requests for a more durable and robust version of its ever-popular ultralight version used by trail and ultra-runners around the world.

“Resounding feedback from testers was that current competitive products were too soft or limp to be carried easily even when full, but users still needed to store them away or pack them flat when they were empty especially in situations where wearing a pack would make them stand out in a crowd,” the company states. “This was imperative for undercover officers and those working big crowds where space can be tight. Other users prefer to use the QUICK STOW Flask to carry electrolyte or other types of liquid fuel to keep it separate from their hydration pack where they keep their traditional water.”

The Mil Spec QUICK STOW Flask features the rugged and leak-proof polyurethane reservoir material, CamelBak uses for its Mil Spec CRUX Reservoirs, which makes it easier to carry without feeling floppy or limp. It also features the patented BIG BITE Valve that is irrefutably the best drink interface on the market thanks to its self-sealing single-piece silicone design that will not leak. The cap also has a leak-proof shut-off valve integrated into a large diameter cap making cleaning and adding ice or powder mixes easy.

Body Cams on Display

Video cameras that can be worn by security and law enforcement officers for evidence gathering and enhancing safety have grown in popularity over recent years with many forces now widely adopting the technology. Several examples can be seen on the show floor at this year’s exhibition.

Dutch company Zepcam is one exhibitor displaying its camera technologies at stand 12-473, which can support officers by providing high-definition recording or live streaming of video feeds via 3G/4G networks for immediate use by team members and commanders.

The Zepcam T2 bodycam is developed for all round professional use and features a compact design with integrated backend for video upload and video management. As well as recording high-definition 1,920x1,080 video using a four megapixel CMOS sensor, it is also capable of recording audio, GPS positions, and capturing 21 megapixel photos.

Zepcam notes that the bodycam is useful for evidence gathering, reducing aggression, lone worker safety, training and evaluation, increasing security and enabling better command and control. The T2 can also be provided with a docking station that will quickly charge the unit and will allow the secure and encrypted transfer of data to either the Zepcam cloud or your own server solution.

The Zepcam T2 comes with management software for storage, user and device management and video management. The company states that 80 percent of Dutch police forces now use Zepcam’s bodycam solutions, with that number growing outside of the Netherlands also.

Another successful provider of bodycam technologies is US company Axon, who can be found at stand 12-564, famously known for its TASER conducted energy weapons but now also its connected law enforcement solutions. The company has led the development of the Axon BODY product range, which is now in its third generation with the launch of the Axon BODY 3 in October 2018.

This body cam is Long Term Evolution-enabled allowing officers to “join forces” by previewing and uploading critical evidence wireless in real-time. Other intelligent features of the Axon BODY 3 includes a gunshot detection function, along with automatic alerts to commanders and live streaming from the frontline to improve safety and situational awareness.

Upcoming features will include transcription and license scanning into the company’s Axon RECORDS product, reducing paperwork for officers and allowing them to “spend more time in the field.” The Axon BODY 3 is currently in testing with US partner agencies and is expected to ship to US customers in the summer. It is planned to be available to non-US customers later this year.

The company also provides the Axon FLEX 2, which is popular with armed police teams as it can be mounted to ballistic glasses and still provide an unobstructed 120 degree field-of-view video recording when weapons are drawn.

Dynamit Nobel Defence Announces RGW90 Product Upgrade

Dynamit Nobel Defence’s family of RGW90 shoulder-launched, disposable, recoilless weapons is advancing to the next stage. The manufacturer is now adding a shaped charge anti-tank effector to the product family.

DND told Enforce Tac Show Dailies that the RGW90 HEAT/HESH A2 weapon represents a, “significant performance and ergonomic upgrade to this effector,” able to, “increase the steel target penetration capability from 500mm of RHA (Rolled Homogeneous Armour) to about 550 millimetres.”

These improvements have been achieved by improving the manufacturing process for the dual-mode shaped-charge anti-tank warhead. DND notes that with the modification of the launch tube it was possible to reduce the overall weight of the weapon to 8kg, down from 8.7kg, while other system features remain unchanged, e.g. its effective combat range that varies from 20m to 500 metres, its ability to be fired from enclosed spaces (≥15m²), and its operating temperature range of -46°C to +71°C.

Enhancements in the design and material could result in additional potential for weight optimisation in the future, DND says. The next step, according to the company, is to complete development of a new tandem shaped charge anti-tank warhead - named RGW90 HEAT/HESH Tandem - that is actually in prototype status.

The combat-proven RGW90 weapon family includes different warheads that can be employed to engage tanks, armoured fighting vehicles, as well as brick and concrete wall structures. The target list also includes soft targets like infantry positions. The ammunition additionally encompasses smoke, illumination, and practice rounds, providing infantry with a “complete toolbox of weapons” for varying mission requirements.

According to DND, the RGW90 HEAT/HESH A2 system has now entered serial production for two international customers. The company did not provide details; but, it was said that the delivery is for two customers located outside of Europe and Asia. Delivery is expected to take place within 2019.
PSV Displays New Assault Multi-Ramp

When presented with high-risk situations that require teams to breach buildings or vehicles, special units need high quality equipment that allows rapid entry for maximum effect.

At this year’s Enforce Tac, PSV Project Support Vehicles is exhibiting the new and unique Assault Multi-Ramp 2018 (AMR18) on stand 12-504 that allows fast and effective tactical entry into above ground areas.

The AMR18 is the brainchild of a serving German law enforcement special forces operator, who personally designed and developed the versatile mobile ramp through experiences on operations. He is now working closely with PSV, which will be responsible for sales and manufacture of the ramp equipment, as well as training packages and training equipment that includes a specially-constructed frame to practice various breaching methods.

Used instead of ladders or stands, the AMR18 features hooks integrated with six tungsten carbide glass breakers that can punch through glass and then grip onto the frame to secure it in place. The hooks can be placed so that the ramp is facing either perpendicular or parallel to the breach point.

The designer of the ramp, who cannot be named for operational reasons, told Enforce Tac Show Daily that these hooks can be swapped with stronger types for breaking building windows and for securing onto rooftops.

One of the big advantages of the 7m-long AMR18, explained the operator, is the ability to keep both hands on the weapon when walking up the ramp, compared with ladders when personnel can only use one hand because of safety reasons. “And you do not have to think about where you put your feet,” he explained.

For added safety, there is extremely grippy rubber as well as anodized aluminium that makes the ramp more durable. At around 35-40kg, the system can be carried by just two personnel or wheeled along using adaptable rollers. Despite this light weight, its total load capacity is an impressive 500kg of payload, allowing for several members of the team to traverse across it during breaching. The special patent pending design allows for two ramps to be fixed together to give teams the ability to breach openings 4 metres up.

PSV Managing Director Michael Sawatzki said that the finished product would be available by the summer and that the company would be putting the item on stock, meaning that customers would not have to wait for items to be manufactured to order.

At this year’s Enforce Tac the company is also showcasing the latest generation HMV SURVIVOR I 4x4 security vehicle, which is manufactured by Austrian company Achleitner and sold to customers by PSV. The configuration on display this year incorporates a five-door roof structure with hydraulically extendable stairs to allow personnel to easily breach upper floors of buildings. This is operational with several special forces units.

Passengers inside are highly protected, with the vehicle achieving ballistic STANAG Level 2 protection standard, Mine STANAG Level 2 protection and IED protection.

The vehicle’s 285hp engine provides 970Nm of torque, along with an automatic transmission that propels the vehicle up to a high speed of 110km/h. The gross vehicle weight of the HMV SURVIVOR I is 12,300kg and is capable of carrying eight personnel as passengers along with a driver and commander in the front. The vehicle features an additional payload capacity of 2,300 kilogrammes.

PSV is also displaying its armoured cabin solutions that it provides to FENDT for its agricultural vehicles, the specific example here in Nuremberg is for the latter company’s 800 and 900 series tractor vehicles. While painted up in police decals, Mr Sawatzki noted that these vehicles are usually used for activities where there is a risk of finding unexploded ordnance and possibly setting off old World War II bombs.

At this year’s Enforce Tac, PSV Project Support Vehicles is exhibiting the new and unique Assault Multi-Ramp 2018 (AMR18) on stand 12-504 that allows fast and effective tactical entry into above ground areas. (Photo: DPM)
Revision Brings the Power

Revision Military showcases its SenSys ComCentr2 Tactical Headset System.

On 18 October, Revision announced that it has acquired Protonex Technology, a developer of power solutions that sit well alongside Revision’s NervCentr soldier power management products and applications, which is being shown at Enforce Tac on booth 12-239.

Protonex innovated in fuel cell design, invented the modern Intelligent Power Manager and grown to become a leading provider of advanced power solutions for portable, remote, and mobile applications.

Revision Military recently supplied numerous NERV CENTR power management systems to key customers in the US Marine Corps (USMC) and Air National Guard (ANG) Joint Terminal Attack Controllers (JTAC). Revision was selected by ANG to supply NERV CENTR power management solutions for their Battlefield Airman Kits, for use by JTACs. Revision has delivered 652 kits, each of which includes a NERV CENTR SharePack Power Management System, a NERV CENTR SoloPack Battery, an Enhanced Charger and select cables.

Revision Military furthermore showcases its SenSys ComCentr2 Tactical Headset System at the show. Integrating advanced electronics and software into a sleek, comfortable and user-focused design, Revision’s ComCentr2 Tactical Headset System offers high quality, natural sounding audio and enhanced sensory performance. The fully digital system enables mission critical communication; improving command, control and communication on the battlefield while enabling dismounted close-combat users to detect vital sounds in a noise polluted environment.

The SenSys ComCentr2 Tactical Headset System is designed to integrate seamlessly with modern helmet systems, including Revision’s Special Operations Forces helmet, the Batlskin CAIMAN Head System suite. The headset’s fully digital design allows for advanced electronic features and provides an upgrade path for technological improvements. User customisable, the ComCentr2 is an ideal communications solution for the modern dismounted close-combat soldier and plug and play with the widower soldier system.

Digital Active Noise Reduction (ANR) technology mitigates low frequency noise generated by military vehicle platforms, protecting hearing, preventing fatigue and improving speech intelligibility. Full 360° situational awareness provided by an array of two forward and two rear facing microphones provides front and back audio detection, enhancing user awareness and closing the gaps left by existing systems. 3D spatial communication enables users to hear radio communications in a three-dimensional listening environment, further decreasing the cognitive burden caused by monitoring multiple nets. The ComCentr2 System includes the Human Interface Device (HID), an intuitive, hand held control unit designed to fit comfortably in the user’s hand. Buttons on the device enable radio transmission, volume adjustment and switching between radios. Unlike systems containing a fixed number of ports, the HID includes a lower section outfitted with a custom dongle. Supporting a wide variety of system configurations and communication devices, dongle attachments enable mission specific configurations in multi-role and multi-channel environments, while ensuring compatibility with legacy and future systems.
a 35mm MIL specification Ophir Germanium lens can be used as a sur-
goggle and Lahoux LS-51 rifle scopes).

range of thermal cameras (e.g., Lahoux LM-11 monocular, Lahoux LG-31
the company states. "DRI or the Johnson criteria, together with the NETD
values and a 40% better resolution than older 25 µm pixel pitch sensors,"
17µm pixel pitch offering better DRI (Detection/Recognition/Identification)
camera. The Lahoux L V-21 uses an innovative 336x256 sensor with
surveillance camera and by installation of a special adapter turned into a front
attachement. It can be attached to various kinds of optical devices e.g.
binoculars, hunting optics, camera’s or video-recorders.

The Lahoux LV-21 thermal imaging camera is also available in a Pro and
Elite version for an even higher contrast/ sharper image (higher NETD value).
A waterproof universal connector can charge the camera and connect the
camera to a monitor or a recorder.

Theon Brings Innovation

Theon Sensors, a leading international night vision and thermal imaging manufacturer, is showcasing two new prod-
ucts on booth 12-345, namely the Mikron-D 16mm Binocular
with Photonis tubes and the TH-60 uncooled thermal clip-
on sight that was developed for Aimpont’s FCS sights.

Mikron-D is a fully MIL-
SPEc image intensified dual
tube binocular that is able to
be operated helmet- or
head-mounted and/or hand-
held. For momentary config-
uration changes, the operator can flip each monocular away separately.

The TH-60 thermal clip-on sight is developed to be used in tandem with
Aimpoint’s FCS sight.

Theon Sensors’ new uncooled thermal weapon sight developed for Aimpont’s FCS sight.

Lahoux Optics Showcases LV-21 Thermal Imaging
Camera

Lahoux Optics’ LV-21 is a new thermal imaging camera in the high-end
range of thermal cameras (e.g., Lahoux LM-11 monocular, Lahoux LG-31
goggle and Lahoux LS-51 rifle scopes).

The light and very compact Lahoux LV-21 thermal imaging camera with
a 35mm MIL specification Ophir Germanium lens can be used as a sur-
veillance camera and by installation of a special adapter turned into a front
attachment. It can be attached to various kinds of optical devices e.g.
binoculars, hunting optics, camera’s or video-recorders.

“The camera offers the user a solution in difficult circumstances, the
company states. The Lahoux LV-21 uses an innovative 336x256 sensor with
17µm pixel pitch offering better DRI (Detection/Recognition/Identification)
values and a 40% better resolution than older 25 µm pixel pitch sensors,
the company states. “DRI or the Johnson criteria, together with the NETD
value [FPA sensitivity in mK] are a measure for the quality of a
thermal imaging camera.”

The Lahoux LV-21 can be used with CR-123 batteries or a 18650 rechargeable cell with
polarity independent battery placement. Robust knobs are
waterproof and can be operat-
ed in the winter with gloves if
needed. Fast start up time and
low power consumption allow
the operator to observe for a
long period of time. The operat-
ing time when using the 18650
battery is very long, up to eight hours.

The Lahoux LV-21 can be
charged to the camera and connect the
sharper image (higher NETD value).
Elite version for an even higher contrast/

The Lahoux LV-21 thermal imaging

Theon Brings Innovation

Theon Sensors, a leading international night vision and thermal imaging manufacturer, is showcasing two new prod-
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Weighing less than 415g, it features a field of view of 40° and a resolution
of 1.2l+p/mrad at less than 0.4° collimation.

Weighing less than 415g, it features a field of view of 40° and a resolution
of 1.2l+p/mrad at less than 0.4° collimation.

The TH-60 thermal clip-on sight is developed to be used in tandem with
Aimpoint’s FCS sights, while maintaining the day optics ballistic zeroing and
ballistic capabilities. The combination with the Aimpoint FCS incorporates
the latest HD, ITAR-free IR sensor, electronics and optical technologies
to deliver great performance and reliability. It generates great IR imagery,
ensuring target recognition at the maximum possible range for increased
accuracy. Currently in final qualification with both companies, Theon said
at Enforce Tac that there is strong interest by NATO customers for the
combination. For further information please stay tuned on MONch (Mönch
Online News Service at www.monch.com). Furthermore, Theon Sensors
is announcing the opening of its new subsidiary in Germany, Theon
Deutschland GmbH, established in response to the strong demand for
night vision and thermal imaging systems in Germany and neighbouring
countries with the aim to support and expand future business.
German tactical medical system and solutions provider CTC Medical is showing the latest fourth generation version of the SOF Tourniquet at stand 12-126, with the life-saving device offering several new improvements for personnel over the previous generation systems.

CTC Medical is the official German distributor of the SOF Tourniquet Gen 4, which is manufactured by Tactical Medical Solutions (TMS) based in the US state of South Carolina. Brandon Smith, Director of Sales for TMS, told the Enforce Tac Show Daily that the company had had, “tremendous success,” in Germany with distributor CTC, particularly with military and law enforcement customers.

That is expected to continue with the introduction of the new SOF Tourniquet Gen 4, which retains its durable 1.5in strap to provide a wider compression pattern, as well as new features including a redesigned quick-compression buckle that allows for smoother buckle manipulation owing to its rounded edges. “This is more intuitive and under stressful conditions you really want that ease of use,” said Mr Smith.

The SOF Tourniquet Gen 4 also introduces a longer and narrower 5.5in windlass, which Mr Smith noted gives personnel better torque and handling when tightening the tourniquet. The windlass is machined from a single piece of aircraft-grade aluminium bar stock - compared with other windlass tourniquets that use plastic - for added durability and is also anodised to minimise signatures in a tactical environments.

The new tourniquet also adds an additional C-shaped retention clamp that virtually eliminates any risk of the windlass accidentally releasing during critical phases of patient care. Mr Smith also noted that this makes it easier for one-handed applications, in case personnel need to self-apply the tourniquet themselves.

The SOF Tourniquet is one of only two windlass tourniquets that is approved by the US Department of Defense, as well as the Committee on Tactical Combat Casualty Care. It is also the tourniquet of choice for the American Red Cross, according to TMS. CTC Medical can also supply other TMS products such as OLAES Modular Bandage, Mini Trauma Kit, the Operator IFAK and R-AID Bag.

Michael Jahn of CTC Medical noted that the SOF Tourniquet can be sold for around €20-25 depending on quantities desired by the end user.

Non-lethal pyrotechnic device specialists Newco Safety Technologies (NST) is showcasing its range of smoke, flashbang and illumination devices at this year’s edition of Enforce Tac at stand 12-104, with visitors able to see the company’s new large smoke generator.

The company is showcasing its new 2kg large smoke generator, which can be used for three types of missions according to NST’s CEO and Managing Partner Hanns-Jürgen Diederichs. These include covering large open areas such as parking lots for law enforcement operations; rescue operations in convoy situations; and training, including for civilian organisations such as firefighters. “The unique thing is that it is non-phosphorus, which means you can use it with innocent people around,” said Mr Diederichs, adding that the generator has already achieved its first sales despite only just being released to the market. The company can also provide smaller smoke grenades for camouflage and signalling with colour smokes, with ten different colours available.

NST also offers a range of flash bang devices for operators, which feature safety functions (such as a two-stage pin safety mechanism) for the user and those persons not intended to be targeted. Users can choose between the aluminium full body effective side vent system with fly off lever, or the bottom vent version including training options with electric ignition systems and a sound level up to 175 decibels (dB).

Reusable inserts can be used for cost-effective training, which gives personnel the ability to use a practice flash bang over a thousand times. The company also offers a popular smaller 140dB flashbang - which can be ignited by either friction or electric systems - for training staff to simulate gunshot sounds, or small explosions for troops. At this year’s Enforce Tac, NST is also showcasing its range of illumination and tracing rounds that can be fired from any 1in and 1.5in signal pistols. Armed forces use these rounds to communicate coded messages on the battlefield, particularly if there is a loss of radio communications. Mr Diederichs noted that there has been a recent revival in the sales of such products as militaries prepare for operations in communication denied environments.

Mr Diederichs said that NST’s philosophy for the customer is to, “keep it simple, and keep it speedy. We want to help the customer fulfil their needs,” he added, noting that his company can now respond to orders within a few days.

Newco Safety Technologies (NST) is showcasing its range of smoke, flashbang and illumination devices at Enforce Tac.
French National Gendarmerie Receives SIG Sauer Pistols

France’s Ministry of the Interior (MoI) purchased a new batch of 580 SIG Sauer SIG ProSP2022 pistols for use by the National Gendarmerie worth €248,299. The contract is being fulfilled by Equipol, which is a division of France’s Rivotier Security-Defense.

The MoI’s procurement department SAELSI handled the contract for the 580 pistols. These will supplement the over 200,000 reportedly originally ordered.

Equipol offer a number of 9mm pistols, their website lists the P2022 along side the SIG Sauer P320 and the Turkish GIRSAN MC28 SAS.

The 580 P2022’s will be shipped with a storage case and padlock, a manual, an orange chamber flag, an oil bottle, a cleaning kit including swabs and a cleaning rod, as well as a lanyard. The pistols will ship with two 15 round magazines and a finger rest base plate. The pistols will be marked ‘MI’ to signify state ownership by the MoI.

This is the second major firearms purchase made for the French police forces made in 2018. Back in July 2018, the MoI selected the Heckler & Koch UMP as the standard issue carbine for both Police Nationale and the Gendarmerie Nationale. Signing an initial contract, worth €3.2 million Euros to procure around 2,600 submachine guns.

Nicolas Debove new COO of Thales Deutschland

Since the beginning of February, Nicolas Debove has been the new Chief Operating Officer (COO) and Vice President Operations of Thales Deutschland. He succeeds Jens Nielsen who has left the company. Debove reports to Dr Christoph Hoppe, the Chairman of the Management Board of Thales Deutschland. The aerospace engineer, who graduated from the renowned “École National Supérieure de l’Aéronautique and de l’Espace” in Toulouse, comes to Thales from the Airbus Group. Starting from 2014, Debove last worked at Airbus subsidiary Premium Aerotec in Augsburg, where he was as a member of the Management Board and VP of Series Programs responsible for the company’s programme, portfolio and project management as a member of the Management Board and VP of Series Programs.

Pepperball Advances Non-Lethal Solutions

US non-lethal weapon specialists PepperBall is displaying its products at this year’s exhibition, including a system that resembles an AR-15/M-4 rifle but instead of deadly bullets it fires paintball-style projectiles that can incapacitate a dangerous individual without resorting to lethal force.

The non-lethal weapon, known as the Variable Kinetic System (VKS), has already been sold to the US Department of Defense and is now included in the Non-Lethal Weapon Programme with a range of other effectors. The US Coast Guard uses a variant of the system while it was also reported in 2018 that the VKS would be issued to US troops deploying to Afghanistan.

The 2.8kg VKS features an adjustable stock, iron sights, and Picatinny MIL-STD-1913 rails for accessories such as weapon sights and laser/light modules. The VKS’s similar form factor and ergonomics to standard assault rifles gives security personnel familiarity when aiming and firing the non-lethal weapon.

According to PepperBall, the VKS can fire up to approximately 45m and can be either magazine fed (with 10 or 15-round capacity magazines), or with a paintball gun-style “hopper” that gives a 150-round capacity. Last year, PepperBall also launched the new TAC-SF launcher, which again has similarities to AR-15/M-4 rifle configurations including features such as automatic and semi-automatic burst firing.

The company also specialises in “PepperBall” projectiles, that are either round paintball-style examples or specially-designed projectiles called XVR rounds that are higher velocity. These projectiles combine impact effect with irritant effects, effectively giving officers a dual incapacitation tool. The rounds can be filled with PAVA, a potent incapacitant, or CS, as well as a dual-payload round that incorporates a mix.

W. Wilson Timothy, Director of International Less Lethal Sales, told the Enforce Tac Show Daily, that the company is also displaying the Tactical Compact Pistol, a compact non-lethal firearm that weighs less than 1kg and can fire up to six projectiles - including the high-velocity VXR series - using either CO2 or Nitrogen. It is also displaying the Flashlauncher, which combines a bright 350 lumen flashlight and PepperBall semi-automatic launcher.
Stoof International, headquartered in Borkheide, Germany, is a privately-owned enterprise that specialises in the development and manufacture of armoured off-road vehicles, vans and mini-buses, armoured trucks, tactical vehicles and ambulances.

Recognising that police and security forces need both quality and reliability, the company ensures its vehicles are tested and certified to the most rigorous and stringent technical standards, including STANAG and VPAM. The world in which we now operate is a dangerous one: violent acts at the national level and armed conflicts on the global scale are both on the rise, with personnel from law enforcement, security and even diplomatic and emergency management agencies bearing the brunt of the associated malicious acts. Governments have never been as vulnerable – or as committed to providing the equipment, resources and solutions required to effectively protect the lives and well-being of their personnel.

Stoof International has a proud legacy of development and manufacture of customised security vehicle solutions. The company’s concepts and products provide operators with effective tools to deal with a wide range of evolving threats and to provide safe, secure transport for personnel and cargo in crisis zones. Client specifications are paramount: from concept, through production and testing to certification, Stoof International vehicles provide what discerning clients need – discreet, certified protection – well known in the industry as the TROJAN series.

The company embraces operator experience from operational theatres around the world, which are fed back into the enterprise to inform and improve the design and production processes. Stoof International vehicles provide what discerning clients need – discreet, certified protection – well known in the industry as the TROJAN series.

Stoof International – a world-class partner that the law enforcement and security communities can fully rely upon – anytime, anywhere.
The defence and security market is a very important one for HEXONIA GmbH, a technology leader in the design and manufacture of functional textiles and ballistic protection systems. The company also makes specialised equipment such as mounts for night vision devices, system components for helmets and equipment for combat training centres. “Our customers appreciate the capabilities of HEXONIA, especially in the field of innovation and product quality, as well as the ability to receive system solutions tailored to their ultimate needs. Our aim as a team is to provide armed forces and security organisations with modern equipment that can protect them in all situations,” Mr Hexels states.

He points to a share of around 90% of production that is destined for German security forces and the Bundeswehr. “[... This will certainly continue to be the case in the upcoming years,” he adds, confirming that this is supported by good corporate growth. With existing projects, Hexonia expects to achieve sales of approximately €50 million in 2019 and to invest significantly in its production facilities. This provides the company with the capability and freedom to be able to serve sustainable projects in neighbouring countries, particularly the Netherlands. Right now, the focus is on Germany, however. Here, the company has larger projects and orders that will require several more years’ hard work.

**SD:** What innovations lie behind your system solutions as currently used by German customers?

**G. Hexels:** To be innovative it is, of course, necessary to realise ideas and to have the courage to implement them technically. The whole team does a great job of developing and improving products. Furthermore, we are committed to not only keeping an eye on the state-of-the-art in terms of materials, processes, and tools, but also to be at the forefront of new system approaches. We achieve this goal by using state-of-the-art production facilities at our [manufacturing] sites in Nettetal and Jahnsbach [Saxony].

The digital age has long since made its way into our production. The programming of systems, as well as the control of [manufacturing] processes, is of great importance to the design and cutting department. Current innovations can be found primarily in seamless design, textile component manufacturing and the seamless combination of different materials. The areas of functional textiles, flame retardants, vector protection and camouflage printing have also been constantly optimised, all under the premise of multifunctional use in combination with other equipment and clothing.

**SD:** What is the story behind the recently announced acquisition of Nautilus?

**G. Hexels:** Compared to other medium-sized companies, HEXONIA owns a very diverse [product] portfolio, taking into account the customer’s needs and requirements. Although the textile component is the premier focus, it is supplemented by a large number of our own components, such as mounts for night vision devices, system components for helmets, and equipment for combat training centres. In the clothing systems arena, we develop, produce and deliver products fit for purpose, from underwear to combat clothing for different climates and various application scenarios.

In addition, we take care of the area of ballistic protection for users, from underwear against blast effects and micro-splinters to protective vests in different protective classes, as well as helmet systems and accessories. Currently, we are dealing with a large order in the field of [the armed forces] KBS-SK combat clothing [set], which is procured as cross-sectional combat clothing based on the Bundeswehr’s IdZ [Infanterist der Zukunft] system. It is important for us to provide the best possible quality, so that soldiers can carry out their orders professionally.

**SD:** How quickly can you offer your own product solutions for rapidly developing or evolving needs in Germany and in other countries?

**G. Hexels:** I think that this is one of our strengths – that we can realise the tools described above. We are able to develop product solutions very quickly and independently and manufacture them in a short period of time. This happens, especially if it needs to be done quickly, in an intensive and interactive dialogue with the customer. In some projects, we have managed to follow a common path together with the client within only a few months from development to delivery of the product. However, good, structured planning in the fields of certification and detection is often crucial in the introduction of new products. I think that on this point, in particular, we are doing a great and reliable job for our customers.

**SD:** What do you offer for current and future procurement projects for the military customer?

**G. Hexels:** Compared to other medium-sized companies, HEXONIA owns a very diverse [product] portfolio, taking into account the customer’s needs and requirements. Although the textile component is the premier focus, it is supplemented by a large number of our own components, such as mounts for night vision devices, system components for helmets, and equipment for combat training centres. In the clothing systems arena, we develop, produce and deliver products fit for purpose, from underwear to combat clothing for different climates and various application scenarios.

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**SD:** Thank you.
MD-TEXTIL Unveils New Products

MD-TEXTIL is showcasing several new products at this year’s exhibition at stand 12-252, including new canine systems, magazine pouches and lightweight ballistic plate carriers as it expands its offering to suit both Special Forces and law enforcement operators.

The company has already seen success with Dutch and German Special Forces for its tactical rappelling systems with several hundred now sold, according to MD-TEXTIL CEO Marcel Doneth. At this year’s Enforce Tac the company is displaying a new harness system for canines, allowing operators to rappel from buildings or helicopters with their dogs by their side.

This system has already achieved sales with special forces units, according to Mr Doneth.

MD-TEXTIL is also exhibiting new pouches for both pistol and assault rifle magazines. The assault rifle magazines can be fitted with a side-mounted safety cord for fast access during reloading, or with a velcro-fitted flap for better magazine protection. The pistol magazine pouch features an internal plastic clip that better secures the magazine when it is placed inside.

A new addition for this year’s show is a lightweight ballistic plate carrier. MD-TEXTIL has worked with ballistic plate manufacturer BSST to offer a vest that weighs just 2,600g (with 2x 800g plates on the front and back). This carrier can be integrated with magazine pouches using MOLLE attachment points and can also be used alongside the company’s rappelling gear for operators as part of a modular harness system.

The company is displaying its vest and pouches in several camouflage patterns and colours, including the next-generation CONCAMO, or confusion camouflage. The developers of the CONCAMO claim that it can, “confuse the subconscious,” with a special patented pattern arrangement. It is also claimed to have special infrared reduction capabilities when viewed through thermal imagers.

Marom Dolphin Looks to Make a Splash

Israeli personal equipment specialists Marom Dolphin showcases several new innovations at this year’s exhibition as part of its display of products on stand 12-275, including its “revolutionary” fusion carrying systems and a plate carrier for special intervention forces. One of the company’s most recent innovations is the Fusion System, which the company calls a, “revolutionary unified carrying system,” for attaching a vest and backpack in the most ergonomic and comfortable way possible. This solution can utilise back packs of various sizes, without additional configuration, and features a detachable carrying system with removable combatant accessories.

Essential equipment such as ballistic plates, hydration system and radio are integrated into the system, even if the backpack is removed. The system is made up of a detachable modular belt equipped with a mechanism for fast and easy donning and doffing. A MOLLE surface allows for the attachment of compatible pouches.

The system - which is made of highly durable nylon fabric - also incorporates a back system with rear ballistic components, along with two side water bags. The front panel also has ballistic components and a surface that is compatible with MOLLE pouches.

Marom Dolphin also exhibits its new Sniper Pro bags, which are designed to offer a modular carrying system for multiple types of sniper rifles of varying calibres, along with accessories. To help with balancing the weight of the bag between the shoulders and waist, the packs include the company’s FORMISSION weight distributing system.

Key features for the Sniper Pro include a main compartment for padded rifle storage and accessory placement, along with a second detachable compartment for additional accessories and personal kit. Compression straps are also used on every pocket, along with drag straps at the top and sides. The waist belt can include three magazine pouches, cleaning kit pouch, general mesh pouch, night scope pouch, day scope pouch and small utility pouch.

As part of its plate carrier solutions, the company exhibits X1 Modular Plate Carrier vest, part of the Raider series of products, which it says has been designed specifically for special intervention forces.
Direct Action Unveils VANGUARD Combat Uniform

Direct Action bring new products to be shown exclusively at Enforce Tac. Within the whole range of presented gear and garments their newest SPITFIRE MKII Plate Carrier, a complete combat uniform stands out: The VANGUARD, composed of VANGUARD Combat Shirt and VANGUARD Combat Trousers, each with Invista Cordura 500D reinforcements.

Direct Action are focused on constant evolution of their products. Thanks to the feedback from users around the world, the company, who share the same owner as Helikon-Tex, were able to create a combat uniform that is one of the most important layers you have on you during any operations. It protects against abrasions from environment, but also should provide proper freedom of movement.

Weighing 460g/1.01lbs and made of Polartec PowerDry FR and NYCO fabric VANGUARD combat shirt is made of top-quality fabrics. The torso is made of Polartec PowerDry FR fabric that is not only pleasant to touch, but also stretchable, as well as transfers the moisture away from the body. The sleeves are made of NYCO fabric that is durable, yet breathable. Reinforcements on the elbows, that work as pockets for protective pads, are made of Cordura 500D fabric. There are additional zippered pockets on shoulders with soft loop panels for personalisation.

At 602g/1.33lbs, the VANGUARD combat trousers were made specially to provide as much freedom of movement as possible without compromising the durability. Made of NYCO fabric with Cordura 500D reinforcements on the knees, these pants will serve you well on any mission. Numerous pockets, including classic hip pockets, zippered front pockets and hook&loop closed pockets on thighs will fit all your necessities. The hook&loop pockets can be used as improvised dump pouches. Hook&loop flaps on leg cuffs and knees allows you to adjust the pants to your needs. Additionally, to provide even more freedom of movement, the pants feature numerous gussets made of 4-way elastic softshell fabric.
FLIR Systems’ Latest SCION Makes Europe Debut

FLIR Systems unveiled its new FLIR SCION Professional Thermal Monocular (TPM) for the first time in Europe at this year’s Enforce Tac, which visitors can see on stand 12-482. The company is positioning this monocular for law enforcement professionals as well as users in the military community.

The SCION is powered by FLIR’s BOSON core technology, providing detailed thermal imaging and detection for tactical users. Christer Tillander, Sales Manager for Nordics and Southern Europe at FLIR Systems, told the Enforce Tac Show Daily that the first demonstration units were likely to ship in March, with production units to follow in May.

“I see very good demand for a product like this and we are confident it will good very well for us,” he explained.

The advanced 12µm thermal core offers more sensitivity than legacy devices, allowing users to quickly detect objects with greater detail and offers clearer vision in low visibility conditions. Three lens options are available for customers, including 13.8mm, 18mm and 25mm that give a man-sized detection distance of 706m, 922m, and 1,280m respectively. The PTM has a smooth 60Hz refresh rate and a quad-VGA (1,280x960) high definition display, along with a 16mm eye relief. It is powered with a special battery configuration consisting of 6x CR123A 3V lithium batteries that give a weight of 572g (without batteries stands at 452 grams). The TPM has 2GB of internal storage and a Micro SD slot (expandable to 128 gb) to record geotagged video or still images for later playback. The imager also supports picture-in-picture zoom and intuitive controls.

The device is also compatible with FLIR Systems’ new TruWITNESS platform, linking powerful thermal imaging with other smart sensors on the ground and in the air, enabling greater situational awareness and real-time centralised information for public safety organisations.

Qioptiq Teases TALON Fused Sight

British optic specialists Qioptiq, an Excelitas Technologies company, is demonstrating to visitors at this year’s show its latest TALON sight on stand 12-377. TALON is a clip-on fused device that combines thermal imaging with traditional image intensification. A Qioptiq spokesperson told the Enforce Tac Show Daily that several Special Operations Forces units were now using the sight, although he could not disclose which countries were users owing to confidentiality agreements. He added that at the moment Qioptiq were focusing on SF customers but it was also interested in supplying regular forces and law enforcement.

The TALON sight incorporates a 12um uncooled thermal imager along with an image intensified tube supplied by Photonis. The 650g fused device can support three modes including: thermal outline; thermal block; and thermal block and outline. Image intensified technology is still seen as important for night operations, particularly when it comes to seeing details that thermal vision obscures.

“That has been driven by the user community and it means they do not have to recalibrate their day sights,” said the spokesman.

International Training Center (ITC) Debuts

International Training Center (ITC) as 10,000m² shooting and trainings centre offers an education area, a large colour marking/laser area and four tactical indoor shooting ranges. The 40x40m indoor shooting range comes with approx. 1.600m² of vehicle-accessible area and 360° capability, also for assault rifles and long-range weapons up to 7,000 joules.

The shooting and training centre complies 100% with the tactical requirements of the German authorities and their occupational safety guidelines and also offers realistic training opportunities.

Making its debut at Enforce Tac, ITC is something to be aware of and watch out for. Stay tuned.

TACWRK Showcases Exclusive Tactical Gear

TACWRK, a mail order for military, police, law enforcement and security, alongside a retail shop in Berlin is the distributor of tactical gear to German units, offering excellent service and a wide selection of clothing, footwear and equipment by internationally renowned brands. At Enforce Tac, TACWRK are exclusively showcasing Core Survival’s HEL-STAR 6 Gen III, a multi-function helmet mounted LED light designed for airborne/MFF, tactical and other military operations, combining the company’s earlier multi-function marker lights into a compact, integrated design with enhanced charge options and easy battery replacement.

The newly refined HEL-STAR 6 Gen III offers a sleek design, integrated tie downs, battery changes without tools, and advanced electronics, including a field reprogramming option. Variable flash rates, intensities and coded signals provide expanded IFF capability. Independent testing has confirmed that the HEL-STAR 6 Gen III exceeds the FAA’s 3 statute mile visibility requirement and is shock and vibration resistant, dustproof and open sea waterproof to 130fsw (laboratory 300+ feet).

Another exclusive is Tasmanian Tiger’s MultiCam Black line, with the Modular Pack 30 being limited to 120 items.

Whether you visit TACWRK here at the show, in their retail store in Berlin or browse through their webshop, law enforcement officers, soldiers and others will find the right thing - simply, safely and quickly.
**Demonstration Area**

This is where the action is! Experience the latest developments in security equipment and official agency purposes with exciting live presentations. Presentations are in German, unless otherwise noted.

  Dr. Alan Tanovic, analyticon instruments gmbh
- **10:30-10:50h** Multibridge - the innovative extension for the Bonowi CAMLOCK baton
  Nick Hein, Bonowi IPE GmbH
- **11:00-11:20h** FN EXPERT - Marksmanship Training System
  Kristof Verjans, FN HERSTAL
- **11:30-11:50h** 3D laser scanning for surveying tasks in the security sector
  Andreas Hofstötter, RIEGL
- **13:00-13:20h** Simgun - Laser-Duell-Simulation
  Marco Hoffmann, Simgun GmbH
- **13:30-13:50h** Modulares Gurtsystem MGS
  Axel Manz, md-textil
- **14:00-14:20h** Petzl Personal Escape and Intervention Systems from Hights
  Benjamin Siebrecht & Marek Proba, PETZL Deutschland GmbH
- **14:30-14:50h** You suck at shooting and we have the data to prove it
  Austin Allgaier, Mantis

**European Policetrainer Conference PiD**

The European Policetrainer Conference (EPTC) is a two-day combination of lectures and professional training for members of official agencies with security and law enforcement responsibilities (police, judiciary, customs, etc.) and the armed forces.

EPTC is organised by the Policetrainers in Germany Association in cooperation with NürnbergMesse.

Presentations are in German, unless otherwise noted.

- **09:00-10:00h** Low Light Operations for First Responders
  (Photo: KROKO Tactical)
- **09:00-17:00h** Rescue and evacuate from the “red zone” in German with simultaneous English translation
- **09:00-17:00h** Defence against attacks by militant groups with less than lethal means of action in German with simultaneous English translation

For more buzz from the floor, please see www.monch.com
Unauffälliger, zertifizierter Schutz

Zertifiziert gemäß höchster internationaler Schutzzklassen (VPAM, STANAG)

Gepanzerte Off-Road (SUV) / Gepanzerte Vans (Kleinbusse)
Gepanzerte Sanitätsfahrzeuge (MedEvac) / Gepanzerte Trucks (SWAT)

Polizei und Sicherheit braucht Qualität und Zuverlässigkeit


Als traditionsreiches und familiengesinftes Unternehmen in Brandenburg, produziert und liefert die Firma Stoof International zur Bewältigung von Bedrohungslagen oder für den Transport in gefährlichen Krisenregionen maßgeschneiderte und mit den Bedarfsträgern abgestimmte Sicherheitskonzepte für den Bau und den Einsatz sondergeschützter Fahrzeuge.

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