

MILITARY SYSTEMS

E T E C H N O L O G Y

COBHAM

**Leading Provider of Integrated
Homeland Security Solutions**

HONEYWELL

**World's Largest Personal Protective
Equipment (PPE) Provider**

MS INSTRUMENTS

**Ballistic Instrumentation & Live-fire
Training Equipment**

OTT TECHNOLOGIES

New and Refurbished Armoured Vehicles

TSS INTERNATIONAL

40 years of Experience in Armour Mobility



BREAKING NEWS FROM...

ARGON ELECTRONICS

HESCO

MARSHALL

OXLEY

PELI™ PRODUCTS

TELEDYNE

WILL-BURT

Image Courtesy of Oxley



SURPLUS AND SHELF LIFE EXPIRED SMALL ARMS AMMUNITION IN OPERATIONAL THEATRES

In any conflict there is a large amount of Small Arms Ammunition (SAA) issued to the troops on the ground which when unpacked cannot be returned to stock. Other issues such as climate and age render the ammunition unfit for front line use and in some cases unfit for training.

This SAA takes valuable resources and manpower to look after it until it is transported from theatre or destroyed. The TRADS 20, built and supplied by EOD Solutions Ltd and Caldo Engineering, would solve these issues and be a cost-effective way of destroying SAA as it became available.

Container or Trailer-mounted, the TRADS 20, which has been proven in Afghanistan, can destroy up to one and a half tons per day and will need the minimum of resources as it is completely self-contained and meets the EU Waste Incinerator Directive for emissions to atmosphere.

The TRADS 20 requires only diesel to operate. Lime and Urea is supplied with the system and one 20-foot container can hold enough of these materials to work for up to one year. The trailer-mounted version can be pulled to FOB and other outstations and camps so it also reduces the need to transport SAA in theatre. The TRADS 20 is ahead of its rivals as it requires only two personnel to work it with a small number of personnel for unpacking and searching the scrap to ensure all the ammunition is destroyed. The system is currently working in Afghanistan and has proven to have a good reliability and production record. Average cost per day is approximately £200 plus labour. Daily and routine maintenance is elementary and can be undertaken by anyone with a rudimentary knowledge of engineering. Full training and first site commissioning is included in the cost of the system and a company technician will remain for the first two weeks to ensure the personnel who work the system are completely at home with the system.

EOD Solutions Ltd in conjunction with Caldo Engineering Also produce a TRADS 40 system (pictured right) for larger quantities of small arms ammunition destruction. This system will destroy approximately 750 Kgs of ammunition per hour and is a constant feed rotary kiln product. EOD Solutions Ltd is currently using this system in Afghanistan under contract to the UK Ministry of Defence as part of the drawdown from Camp Bastion. Both systems come complete with first installation and training.



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Welcome to this edition of the Military Systems & Technology newsletter.

As an established web portal for the International Defence & Aerospace Industry, we strive to provide a comprehensive and detailed listing of Military Equipment Suppliers, Products and Services. This newsletter is designed to keep you up-to-date with latest news and events within the Defence Industry's Governing Bodies, Organisations and Companies.

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COBHAMCobham Mission Equipment -
Unmanned Systems

LEADING PROVIDER OF INTEGRATED HOMELAND SECURITY SOLUTIONS

Telerob GmbH trading as Cobham Unmanned Systems is a leading provider of integrated homeland security solutions and unmanned platforms, utilizing over 30 years of expertise in this highly specialised field.

Cobham Unmanned System' mission is "To develop machines, equipment and systems that protect or replace human beings in situations where their presence would be either impossible or place them at great risk".

EOD / IEDD Equipment, EOD Robots and Service Vehicles

Whether the task at hand is disarming an Improvised Explosive Device (IED) with a remote controlled robot; investigating NBC hazards with an unmanned sensor platform; or deploying mobile, fully networked measurement, monitoring and intervention systems to ensure the safety and security of critical infrastructure, Cobham's top priority is always the protection of people and their surroundings.

Cobham Unmanned Systems' product range includes mobile unmanned sensor platforms with manipulators for taking samples of



suspicious substances; vehicles equipped with state of the art robots for detecting and disarming of Improvised Explosive and Incendiary Devices (IED's); and integrated mobile systems for dealing with full spectrum of asymmetric threats.

Remote Controlled Robotic Solutions

More than 700 Cobham Unmanned systems are in service today, supporting bomb disposal officers and first responders in nations around the world.

Distance means safety; this basic rule with regard to disarming explosive devices means that bomb disposal officers increasingly prefer

EOD Robots as their tool of choice.

Not only bomb disposal officers are exposed to a wide and varied range of hazards today; rescue forces and first responders increasingly get into situations that involve an extremely high level of personnel danger. Unmanned robotic systems have been developed to allow inspection and deal with hazards from a safe distance.

Building on this exceptional experience base, highly advanced solutions can be offered today; semiautonomous and remote controlled robots that can take samples of suspected biological or chemical warfare agents, plus reconnaissance platforms for CBRNE detection.



telemax Explosive Ordnance (EOD) Robot

The telemax robot is the most versatile EOD / Hazmat robot available on the market today. It packs up small enough to fit in the back of a small SUV but is able to reach over 2,4m tall.

A four-track running gear has been used for the first time in a vehicle of this size, which offers superior mobility compared to other forms of running gear. This means that it can handle gradients of 45° or 100% without difficulty. It can overcome obstacles of up to half a meter in height without problems and also trenches of 60 cm in width.

The basic principle of 'less is more' applies with special forces if the situation involves working in confined spaces; in all cases where the big EOD robot cannot be used its little brother provides that vital distance between the bomb disposal engineer and the explosive device (IED, EOD, Bomb) that can mean the difference between life and death: in aircraft, in subways, in buses or other means of public transport.

The telemax has a unique set of features making it highly mobile and suitable for operating in confined spaces; the four individually articulating tracks are controlled separately and can be moved individually in pairs or all together as desired. Additionally, an intelligent controller sets running gear configurations to cope with the relevant situation at the press of a button.

These features make it easier for the operator to control the vehicle, especially in tricky situations such as narrow stairways and high steps. Inclination sensors ensure that the robot always maintains its balance. If a travelling speed of 4 km/h is not enough, then the high speed version offers up to 10 km/h.

The operating concept of the telemax is almost revolutionary by comparison to other robots on the market. It is the only EOD robot in the world that has a so-called TCP controller. TCP stands here for Tool Center Point, the middle point of the tool, or more simply, the gripper or disruptor. This kind of manipulator control makes the telemax the best in class robot in manipulation.

telemax is the only robot in this class that has two tool magazines incorporated into the chassis. This means two additional tools / firing systems can be used on an operation without needing to go back to the starting point. The manipulator automatically takes out the additional tools at the simple press of a button.

NBCmax CBRNE Service Robot

The NBCmax service robot is a universal mobile sensor platform that can be equipped with a broad palette of sensors to detect and investigate chemical, biological, explosive or toxic substances (CBRNE).

Not only bomb disposal engineers are exposed to a wide and varied range of hazards today. Rescue forces and first responders such as the fire service, technical rescue specialists or international aid forces increasingly find themselves in situations that involve an extremely high level of personal danger. This includes operations that involve hazardous materials, toxic substances or even biologically harmful materials such as viruses or bacteria. Once such substances have been released—whether through accidents or intentionally—the rescue forces are exposed to maximum danger if working manually.

The NBCmax has been developed to allow the response forces to inspect, and if applicable deal with hazards from a safe distance. The data collected, ranging from gas concentration and

gamma radiation through to evidence of explosives, is transmitted back to the control panel of the robot to be processed by the operator.

tEODor Explosive Ordnance (EOD) Robot

tEODor is an Explosive Ordnance Disposal (EOD) and observation robot that sets the standard worldwide.

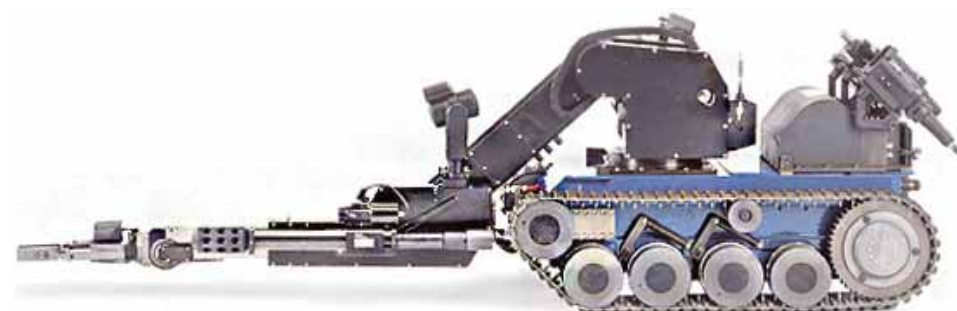
Distance means safety; robust, reliable and flexible in use, the innovative bomb disposal system provides a maximum degree of safety and protection. The basic model is designed as a twin-track vehicle with extremely good manoeuvrability and good properties on open ground; the running gear, equipped with sprung rollers, is characterised by the ability to climb at angles of up to 45°. The individual links of the robust steel track can be easily replaced if they become worn or damaged.

The high-torque drive units work with continuous four-quadrant control, both backwards and forwards. Both the vehicle and the manipulator can be operated with extreme delicacy. When the vehicle stops on slopes or gradients the safety brakes operate automatically to hold the vehicle in place.

EOD - IEDD TEL600 Service Vehicles

The TEL600 series is a family of vehicles which deal with the demanding tasks associated with the location, identification and removal of explosive and incendiary devices, especially in the event that there is suspicion of a dirty bomb. The range encompasses a compact Rapid Response (S) vehicle based on a fast four wheel drive (4X4) vehicle to take immediate action at the crime scene; medium-sized (M) search and detection vehicles for location and identification operations; and fully equipped IED / NBC response systems (L) weighing up to 8 tons.

The XL and XXL systems, based on medium-sized and heavy trucks, represent the highest standard in Bomb Disposal vehicles, providing security personnel with the optimum amount of equipment to cover every eventuality. Kit ranges from a simple hook and line set through to various EOD robots and unmanned reconnaissance platforms, all the way up to a NBC robot with a fully automatic system to take samples and investigate hazardous biological materials. Systems are made-to-order based on individual customer specifications.



Honeywell

Honeywell

WORLD'S LARGEST PERSONAL PROTECTIVE EQUIPMENT (PPE) PROVIDER

Honeywell

Honeywell Safety Products has become the world's largest personal protective equipment (PPE) provider. Honeywell Safety Products are backed by the powerful global resources of Honeywell International and its \$1.5 billion corporate R&D budget. Honeywell Safety Products draws on the corporation's exceptional technology and innovation capabilities to develop new materials, electronics, sensors, and communication systems.

QUIETPRO® Intelligent Hearing Protection and Communication Systems

QUIETPRO® QP400 is an intelligent digital communication headset and high-level hearing protector for military use. QUIETPRO® significantly improves communications and situational awareness in noisy surroundings while protecting the users' hearing. It adds no weight to the head and is fully compatible with all military ground, vehicle and ballistic helmets and CBRN protection gear.

This unique combination of features is targeted

to enhancing the capability of the soldier performing his duty in harsh and dangerous environments, and to allow for the use of one system only for all combat scenarios.

QUIETPRO® QP400 from Honeywell Safety Products is an advanced Intelligent Hearing System that provides high-levels of 'verifiable' hearing protection. Hearing protection that adapts to the noise environment to permit the user to hear sounds around them – when safe to do so.

Mission Safety Critical - Two-way Military Communications

QP400 ensures mission (safety) critical two-way communications are received clearly and accurately, first time in all noise scenarios.

QP400 connects to multiple two-way radio, platform intercom, soldier navigation solutions, sniper or gunshot detection systems, smart cell phones or personal music devices. With automatic configuration of the interface to the device connected, the correct equalization (matching) of the interface is assured without any user intervention.



QP400 is designed using the core processing architecture and algorithms developed for the successful QUIETPRO and QUIETPRO+ systems. Thousands of these original QUIETPRO systems have entered service with a variety of Government user groups in 15 countries worldwide.

QP400 allows the user to enhance their natural hearing so that they can hear sounds that cannot be heard with their ears alone. It also enables the user hear sounds around them ensuring that retain their localized situational awareness. Vital for their personal safety and security.

QP400 continuously adapts to the noise environment, always providing the correct level of protection, but never over protecting. The QUIETPRO® is developed to only attenuate what is absolutely necessary and only for as



long as the protection is needed. When the dangerous noise is no longer present, QUIETPRO® immediately restores full hearing capability.

QUIETPRO® is designed to allow for intelligible communication in high noise environments up to 110-115dB. QUIETPRO® attenuation > 40 dB for Impulsive noise protection. Overall passive attenuation of the foam tips - SNR 34dB (EN352-2).

QP400 incorporates digital Active Noise Reduction (ANR) that provides further attenuation for low frequency noises in addition to that provided by the foam ear tips. This highly stable digital ANR system automatically activates (only when required) and cancels out the rumbling of the low frequency noise from sources such as armoured vehicles (tracked and wheeled), large engines, boats, fixed wing aircraft and helicopters.

QUIETPRO® has undergone many extensive and rigorous evaluation and assessment programs by independent test and validation organizations in Europe, Australia and the United States. With the exception of impulse noise testing above 160dB (explosions), testing has been conducted on human beings to assure accurate and realistically reliable results.

Soldier Hearing Protection

QP400 automatically performs a FIT TEST of the in-ear headset to ensure that a good level of hearing protection and clear two-way communications are obtained. This feature provides the user with confidence that a high level of protection is being achieved.

QP400 can be configured to connect multiple radio and communication systems. Up to 4 separate communication channels.

QP400 can connect a variety of headset types, including; the QUIETPRO in-ear high noise headset, circumaural 'muff' headset, on-ear / single sided headset and less overt headsets. The user is able to choose the headset and

adapt the QP400 to meet their requirements or personal preference.

QP400 provides the user with an intuitive MENU function with voice feedback provided through the headset. This enables the user to control the modes and operation of the QUIETPRO system to meet their requirements and preferences. This voice feedback can be provided in different languages.

The QP400 has been designed to facilitate rapid mount-dismount transitions with mobility platforms, while maintaining continuous connectivity to the communications network.

QUIETPRO In-ear Military Headset

The new QUIETPRO in-ear headset is now available with a custom moulded ear tip or the comfort improved ear tip PROTIP. The PROTIP provides a very high level of attenuation of noise (independently tested), with a significant improvement in user comfort. Consequentially, the headset can be worn continuously for extended periods of time.

The QP400 has been designed with the capacity to introduce new features and capability enhancements through software modifications only.

Overview of the QP400

The QP400 retains the core processing architecture and mathematical algorithms of the battle proven QUIETPRO® and QUIETPRO+ products. These original products have been delivered to customers worldwide.

The feedback and experience gained from this extensive base of installed products has driven the fundamental redesign of the product to achieve the QP400.

- Redesigned the Control (processing) Unit. More tactile and simplified user controls.
- Intuitive Menu system to control functions and modes of the system. Spoken voice feedback is provided to user through the headset – greatly reduces the time required to train on the operation of the system.
- Comfort improved ear tips.
- Placement of all cables and connectors on one side of the Control Unit to allow greater mounting options on the vest or load carriage system to suit the user.
- Interchangeable headsets – user selectable



depending upon mission or personal preference.

- Compatibility with legacy in-service headsets using QP400 adapter cables.
- User configurable Control Unit mounting options.
- Increased number of communication channels from 2 to 4 (independent channels)
- Automatic Configuration of system to communication device(s) connected.
- Dedicated tactical radio and platform / mobility connection points, with high reliability, rapid disconnect connectors.
- Reduced weight
- Quick release connectors for easy connection/disconnect
- Replaceable mounting brackets to provide full flexibility of mounting options

QUIETPRO System Components

- Headset with two lightweight in-ear earpieces.
- Control Unit with 3 PTT buttons (primary controls) and menu, confirm and volume buttons (secondary controls)
- Interface cables for other audio devices such as vehicle intercoms and alternative tactical radios.
- Optional wireless 'dual' PTT.
- Optional wired one button chest PTT or one button finger PTT
- Optional headset adapter cable to connect end customer legacy headsets to the QP400.
- Y splitter cable to enable two separate radios to be connected to the radio communication connector

MS Instruments

MS Instruments

BALLISTIC INSTRUMENTATION & LIVE-FIRE TRAINING EQUIPMENT

Established in 1972, MS Instruments is a leading innovator in the design and manufacture of ballistic instrumentation and live-fire training equipment for ground and air training. Working with the expertise of our wholly owned subsidiary, Wiltshire Ballistic Services (WBS), we can provide proven, rugged and well-built products for most internal and external applications. Used by governments, Armed Forces and manufacturing companies worldwide, when combined with our leading edge software, our instrumentation delivers flexible and individually tailored solutions.

Live Fire Ground Target Training

Our equipment can be used indoors or out and is rugged, reliable, highly accurate, flexible, easy to use and configure, and can run different training combinations simultaneously. The system produces instantaneous results wirelessly to the firer or instructor on a firing point monitor, enabling rapid analysis and improvement of performance. This information is also available at a central range controller for analysis by the Range Officer or stored for future use. Our systems are in service throughout the world in a variety of different environments. The system uses acoustic scoring technology, meaning there are no false recordings from stones and debris. Larger scale versions are available for tank gunnery training using heavy duty targets and lifters and like their smaller counterparts can be made to pop-up and down, fall when hit and move on rails.

Live Fire Air to Ground Target Training

We also supply systems for training and assessing the performance of a pilot in the air-to-ground strafing and bombing role. Using Windows®-based software, the strafe system records details of the pilot, aircraft type and



registration, stores type and attack profile. It produces instantaneous results that are relayed back to the control tower which can then be passed onto the pilot and recorded for later detailed analysis. Like the ground training system, it uses acoustic technology to reduce false triggers. The bombing system is semi-automatic and consists of two sighting quadrants that are used to triangulate the fall of the bomb. An operator logs the angular measurement which is then sent by UHF link to the tower where the software displays the bomb position on screen to be relayed to the pilot. Both systems have been designed to be





real-to-life and have been in service with the Royal Air Force for well over 15 years.

Ballistic Instrumentation Projectile Velocity Measuring System (PVMS)

Our comprehensive range of instrumentation can be used to measure all the ballistic parameters of subsonic and supersonic projectiles. Our sensors can be connected either by cable or wirelessly to a single Range Processor, be it a standard PC or laptop. By using GPS to locate every event, in both time and space, the information recorded is extremely accurate. The company provides its own BallisticsDB software giving full control and diagnostics of the connected equipment as well as data warehousing and statistical analysis capabilities. The system is Windows®-based for ease of operation. Our Projectile Velocity Measuring System (PVMS) can measure velocities extremely accurately to within 0.02% in bright or low light conditions and has been sold around the world. We can provide all the equipment required to create an entire test range to customer requirements.

Automated Flight Follower (AFF) System

Where normal ballistic instrumentation is not enough, and for a more detailed analysis of the flight of a projectile, MS Instruments has developed a fully Automated Flight Follower system (AFF).

This was developed to meet the high speed imaging needs of modern ammunition designers and manufacturers. The system allows the user to see quickly any flaws within the ammunition that would otherwise be invisible, saving time and further costly trials. The images produced are so detailed that you can actually see the supersonic shock wave being created by the

projectile.

The system uses a high speed camera (the model of which can be specified by the customer) and computer controlled rotating mirror programmed to rotate at the correct speed such that the camera will follow the projectile in flight. The dedicated analysis software is able to record velocity, drag correction, trigger delay and is also able to calculate and show even minor yaw and pitch variations.

Forensic Weapon Testing and Analysis

MS Instruments' equipment can be used for forensic investigations to identify weapon or ammunition performance in forensic cases and to train officers in recognising shot patterns. We provide equipment for ballistic gel analysis for both evidence gathering purposes and the study and demonstration of the effects of a projectile on body tissue. We also supply the software to deliver accurate analytical results, and the necessary equipment to make up ballistic gel to exacting standards. Our projectile velocity measurement systems (PVMS) and strawboard imager can assist in weapon and ammunition identification and for gathering information on characterisation of fragment size, energy and

distribution. Information gathered can help determine lethality of a projectile and provide crucial evidence in a case.

Our forensic equipment is in service with police forces and forensic laboratories throughout the UK.

Nimbus Non-Lethal Vehicle Protection System

Nimbus comprises a series of covertly fitted pyrotechnic devices that are fired from within the vehicle to distract, disorientate and deprive attackers of any advantage. Using smoke, sound and airburst units, the system gives the edge back to the inhabitants of the vehicle. Completely controlled from within the vehicle, it provides an effective countermeasure by creating a dense smoke screen, while sound and flash-bang units disorientate the attacker(s), scattering any shots fired. These units can be deployed individually, as a single bank on either side or all at once. Nimbus can also incorporate a tracker that can alert the home base or mobile phone device that the system has been fired, giving an exact location anywhere in the world, enabling appropriate action to be taken.

Ballistic Testing

Our wholly owned subsidiary, Wiltshire Ballistic Services (WBS), has been undertaking ballistic trials in its dedicated ballistic test facility for almost 30 years. It offers a secure indoor firing range and is completely independent from any armour or weapons manufacturer.

Further information can be found on the WBS page here - www.militarysystems-tech.com/wiltshire-ballistic-services-ltd





OTT Armoured Vehicles

OTT TECHNOLOGIES, NEW AND REFURBISHED ARMoured VEHICLES

OTT Technologies (Pty) Ltd (OTT) is a South African company located outside Pretoria. The company is in operation since 1980. OTT developed over the years from a small company that specialised in the refurbishment of surplus ex-military all terrain vehicles to its current status as a company with acknowledged engineering excellence. The current status of the company is an ISO 9001 certified company that still re-manufactures surplus ex-military all terrain vehicles and also designs and manufactures new wheeled armoured vehicles.

OTT has two main business streams, New

armoured vehicles and Refurbished Vehicles. A secondary business stream is the supply of new and refurbished original spares for Samil trucks, Casspir MPV's, Mamba MPV's, Ratel APC's and older generation Unimog trucks.

New Armoured and tactical Vehicles

OTT designs, develops and manufactures wheeled armoured vehicles. Our vehicles are used by police, military, peace keeping forces and security companies for the safe transportation of personnel and assets in transit. The current new armoured and tactical vehicle products of OTT are:

Protector M21 Modular Armoured Vehicle

The Protector MAV is built on a commercial truck driveline. The maximum gross vehicle mass is 13 ton with a 4,3 ton payload. The Protector can be configured as an armoured personnel carrier (APC), assets/cash in transit vehicle, ambulance or command and control vehicle. It is available in 4x2 and 4x4 configuration with Right Hand Drive steering. The basic crew consists of a driver and commander. Up to 10 additional passengers can be carried. Main users are police, security companies and cash in transit operators.

Protector M22 Light Modular Armoured Vehicle (LMAV)

The M22 LMAV is built on a commercial truck driveline. The maximum gross vehicle mass is 7,5 ton with a 2,4 ton payload. The M22 can be configured as an armoured personnel carrier (APC), assets/cash in transit vehicle, ambulance or command and control vehicle. It is available in 4x2 configuration with Left or Right Hand Drive steering.

The basic crew consists of a driver and commander. Up to 10 additional passengers can be carried seated back-to-back or 9 facing linear with the direction of travel. Main users are police, military, security companies and cash in transit operators.





Elephant 5000 Riot Control Unit (RCU)

The Elephant 5000 RCU consists of a modular riot control unit mounted on 13,5 or higher GVM commercial 4x2 or 4x4 truck. It has a 5000 litre water tank as well as dye and irritant tanks which can be sprayed on rioting crowds to disperse them. Self protection systems protect the vehicle and crew against fire and close contact by rioters. Steel grids protect the windows against hand thrown objects. The crew consists of a driver and operator.

Marrua M27 Light Armoured Patrol Vehicle (LAPV)

The Marrua M27 is a light armoured patrol vehicle with a crew of 4. It is built on an Agrale Marrua AM200CD chassis and is supported through the Agrale distributor network. The M27 LAPV is primarily designed as a patrol and general utility vehicle protecting the crew against small arms fire and side blasts from Improvised Explosive Devices (IED's).

It can also be configured as a reconnaissance and surveillance vehicle, tactical command and control vehicle as well as a light cash in transit vehicle.

Puma M26 Mine and Blast Protected Vehicle (MRAP)

The V-shaped hull Puma M26 4x4 is an armoured personnel carrier (APC) with mine and IED protection. It is built on a commercial truck driveline. The main users are military, police and security companies during peace keeping, homeland security and other asymmetric warfare operations.

Other roles include, high mobility mine protected patrol vehicle, tactical rescue/ambulance, mine protected weapon carrier and mine protected tactical command vehicle.

Puma M36 Mine and Blast Protected Vehicle (MRAP)

The V-shaped hull Puma M36 4x4 is an

armoured personnel carrier (APC) with mine and IED protection. It is an evolutionary and larger extension of the Puma M26 and is also built on a commercial truck driveline. The main users are military and police during peace keeping, homeland security and other asymmetric warfare operations.

Other roles include, high mobility mine protected patrol vehicle, ambulance, mine protected weapon carrier and mine protected command vehicle.

Land Cruiser M40 Light Protected Vehicle

The Land Cruiser M40 light protected vehicle is used for Cash in Transit and transportation of security personnel. It is based on the Toyota Land Cruiser Series 79 pick up truck. It carries a crew of 4 (driver plus 3) with a payload of 300kg for assets.

Refurbished Military Vehicles

OTT also specialises in the re-manufacturing of ex-stock all terrain military and police vehicles and is internationally well known for these high quality vehicles. Customers include the Africa Union, Nepal, various NGO's as well as various African Governments, mining houses and other

private customers. The product list includes Ratel APC's, Samil 20 Hunter SOV, Samil logistic trucks, Casspir mine protected vehicles, and Nyala RG12 police APC's.

Ratel 6x6 Armoured Personnel Carrier (Refurbished)

The combat proven Ratel 6x6 is known as a robust and reliable vehicle that proved itself during operations in Southern Africa. The APC has a crew of driver plus 8. The Ratel can be fitted with a variety of weapon systems including 90mm gun, 12,7mm machine gun, 14,5mm machine gun, 40mm automatic grenade launcher or even with an anti-tank guided missile in the tank hunter role.

Samil 20 Hunter Light Strike Vehicle (Refurbished)

The Hunter LSV is based on the proven Samil 20 high mobility truck. It is mainly used by special operations or light strike teams where surprise, situational awareness, fire power and a highly mobile and robust platform are essential for combat survivability. It has a crew of driver, commander and 5 gunners. The weaponry consists of a 12,7mm or 14,5 mm machine gun plus three 7,62mm light machine guns to provide all round fire power. The Hunter is also available in a Patrol variant without machine gun mountings for those customers who do not require the lethal fire power of the LSV.

Samil 20 All Wheel Drive High Mobility Truck (Refurbished)

The Samil 20 is known for its extreme off-road mobility, robustness and reliability. It has a gross vehicle mass of 7700 kg and can carry a load of 2690 kg. The Samil 20 is available as personnel carrier, light cargo vehicle, field ambulance, light workshop vehicle, light fire tender, etc. It is a highly versatile platform.





Samil 50 All Wheel Drive Tactical Truck (Refurbished)

The proven Samil 50 is known for its excellent mobility, robustness and reliability. It has a gross vehicle mass of 12400kg and an off-road payload of 6000kg making it the ideal tactical logistic truck. It can be used as a personnel carrier, cargo vehicle, fuel or water truck, workshop and maintenance vehicle, fire tender, etc.

Samil 100 6x6 Logistic Truck (Refurbished)

The Samil 100 is like all the other Samil trucks also known for its excellent mobility, robustness and reliability. With a gross vehicle mass of 21 ton and a payload of 12 ton it has various logistic applications in tough environmental and operational conditions.

Spare Parts

OTT has large stocks of new and refurbished spare parts for Ratel, Samil trucks, Casspir MPV's, Buffel MPV's, Mamba 4x4 MPV's and Unimog 416 trucks.

OTT Technologies Customer Profile - OTT has supplied quality remanufactured and new vehicles to various discerning customers including:

- **The Governments of Zambia and Malawi mainly for use in United Nations Peace Keeping Operations.**
- **The Africa Union for use by member states in AU Peace Keeping Operations.**
- **Individual African countries.**
- **The United States of America for use in Afghanistan and Iraq.**
- **The Government of Nepal for use in United Nations Peace Keeping Operations.**
- **Various Non-Governmental Organisations (NGO's) mainly for use in Africa.**



- **Anglo American Corporation.**
- **De Beers Diamond mines.**
- **Various large South African mining houses.**
- **Protector Modular Armoured Vehicles and M22 Light Modular Armoured Vehicles to SBV Services a South African company that transports large amounts of money in high risk areas.**
- **M22 Light Modular Armoured Vehicles to cash in transit operators in Nigeria.**





ib the event



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2- 3 September 2014

NCT CBRNe Europe 2014 - Westin Leipzig, Germany

IB Consultancy is proud to welcome you to the 2nd edition of NCT CBRNe Europe. On September 2-3, we will again welcome Europe's CBRNe community to the #1 CBRNe event series in the world at the Westin Leipzig in Germany. Learn from our expert speaker panel and network with our delegates from the CBRNe community. With delegates from the EU, Central Europe, Caucasus and the Middle East, NCT CBRNe Europe promises to be a great event!

Event Highlights

- The leading CBRNe event in the world with previous editions In The Hague, Tel Aviv, Kuala Lumpur and Bangkok
- Two days of conference and trainings with high-level speakers from Europe, Caucasus and the Middle East
- Attendees, delegations and speakers from over 40 countries including Germany, Poland, Ukraine, Estonia, Hungary, Croatia, and many more
- NCT events are the undisputed best venues for high quality networking, meeting the people who matter
- Taking place at the 5 star Westin Leipzig

Featured Speakers

Colonel Henry Neumann

Commander, Bundeswehr CBRN Defence Command, Germany

Professor. Dr. Iossif Bogdevitch

Research Institute for Soil Science and Agrochemistry, Belarus

Colonel (Ret.) Ayhan Batur

Former Commander, CBRN School of the Turkish Armed Forces, Turkey

Chaim Rafalowski

EU and Disaster Management Coordinator, Magen David Adom, Israel

Dr. Dimitry Bazyka

National Research Center for Radiation Medicine, Ukraine

Captain Massimo Pedemonte

C-IED and CBRNe Police Instructor, Italian National Police

Dr. Heinz-Ulrich Glaser

Project Manager, Federal Office of Bundeswehr Equipment, Information Technology and In-Service Support, Germany

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40 YEARS OF EXPERIENCE IN ARMOUR MOBILITY



Thanks to almost 40 years of experience, TSS International specialises in Armour Mobility: keeping special (armoured) vehicles moving and enabling them to get to safety in the hardest of circumstances. Whether you need runflat systems, heavy duty alloy wheels, protected fuel tanks, heavy-vehicle brake systems or vehicle intercoms, TSS aims to provide you with the best products and highest service to meet your mobility requirements.

Mobility is a vehicle's most important asset, TSS International makes sure your vehicle gets to use that asset as long as possible.
TSS International: Armour Mobility

Rodgard Runflat Systems

A vehicle's traction and control is greatly determined by its tyres. Normally, when a tyre is punctured, traction and control are rapidly reduced, because the tyre is no longer held in place and will eventually remove itself from the wheel. Rodgard Runflat Systems make sure the tyre remains in place and keeps contact between the vehicle and the road, providing full control over the vehicle, even with more than one flat tyre.

Rodgard Runflat Systems are available in different configurations, with flat tyre mobility ranging from 15 to 80 km at speeds suitable to

get to a safe location.

Rodgard Runflat systems are available for standard 1-piece rims ranging in size from 13 to 22.5 inch in diameter.

Rodgard Runflat Systems comply to Finabel Standards.

TSS Heavy Duty Wheels

TSS has developed wheels especially for luxury armoured vehicles. These 1-piece alloy wheels have a TuV certified pay-load of 1800 kgs per wheel and are especially designed to give optimum performance with Rodgard APX

Runflat Systems and StopTech Big Brake Kits. Ballistic testing has shown these wheels do not crack when shot at, making them very suitable for the hardest circumstances. Vehicles served by these wheels are among others: Toyota Landcruiser 200 V8, Mercedes-Benz G-class, Mitsubishi Pajero, Nissan Patrol, Range Rover, Land Rover Defender, GMC Suburban, VW Touareg, Mercedes-Benz S-class, Hyundai Equus and Lexus LS and LX.

Special development: Rodgard APX Runflat Systems. Designed to get the most mobility out of your TSS Heavy Duty Wheels.

MOV'IT Security Heavy Duty Brakes for Armoured Vehicles

The added weight of an armoured vehicle's protection has its effects on the original brakes. To make sure your vehicle can safely stop, more than once, heavy duty brake upgrades are required.

MOV'IT Heavy Duty Security Brakes deliver the most consistent and best performance with:

- **High grade steel calipers**
- **Larger and thicker rotors and brake pads for more friction surface and heat**



dissipation

- **Braided, stainless steel brake lines**
- **Better balance for the added weight and higher centre of gravity**

MOV'IT Security heavy duty brake systems for armoured vehicles are now exclusively available at TSS International.

TSS ProtecTank - Fuel System Protection

By converting your standard fuel tank into a TSS ProtecTank, you protect yourself and your passengers against leakage, explosion and fire which can be caused by your fuel tank being shot at. A fuel tank being shot at is at its most dangerous when it is half empty, due to the high flammability of the fumes. TSS ProtecTank technology minimises explosions, self-seals ruptures and limits the effect of any external fire.

And last but not least: TSS ProtecTank makes sure your vehicle gets to use its main energy source as long as possible: its fuel.

TSS ProtecTank makes use of the OEM fuel tank, and is tailor made to fit your vehicle.

CarVox Vehicle Intercoms

Sometimes opening the window or door of your armoured vehicle is simply not an option, due to the surroundings not being safe enough. So, when approaching a roadblock or checkpoint, how do you communicate with the people on the outside of your vehicle? CarVox Vehicle Intercoms allow you to have a two-way conversation with someone on the outside of your vehicle, without having to compromise the safety of your armour. This semi-duplex system is easy to use, can be equipped with a siren and/or PA function, and is available in many configurations for many different applications (i.e. prisoner transport, limousines, cash-in-transit etc.).





Argon Electronics to supply Plume SIM CBRN Simulation System to Federal Agency, Germany

Argon Electronics has been awarded a contract to supply CBRN simulation systems to Technische Hilfswerk (THW - the Federal Agency for Technical Relief), part of Germany's Federal Ministry of the Interior. Supplied through OWR, Argon's representative, the world-class simulation systems will be used to improve the realism of THW's field training, which prepares its teams on how to respond to a CBRN incident.

CBRN Simulation Systems

Over the last two years, THW has been working to enhance the CBRN field training that it provides to its 80,000 strong team of volunteers at its training base at Neuhausen, near Stuttgart. A core focus of this training is on dealing with various radiological hazards.

Improving the realism of its practical training was a key challenge for THW to overcome. To aid with response training, it was vital that students would be able to see exactly how a measuring device would react in the face of a real radiological threat.

As part of the contract, Argon is providing FH 40 G-SIM simulated survey meters and EPD-Mk2-SIM simulated dosimeters. These will be combined with Argon's PlumeSIM training system that creates realistic table top and live area radiological training scenarios and allows instructors to monitor their students in real time and provide valuable analysis and feedback after the exercise. Argon Electronics has supplied similar systems to CBRN training facilities and organisations in the USA, UK, Ireland, Sweden and Canada.

THW Radiation Protection Officer, Sebastian Kroll, notes, "Argon's simulation system will considerably improve the realism of our CBRN field training and will help our students to better understand what to do in the event of a real radiological incident. This is a key element for their safety. Argon's system also offers us the opportunity to be flexible in usage and to add further CBRN training components if required in the future."

THW work with local authorities in Germany to provide local and national disaster relief and work internationally on behalf of the German Federal Government.

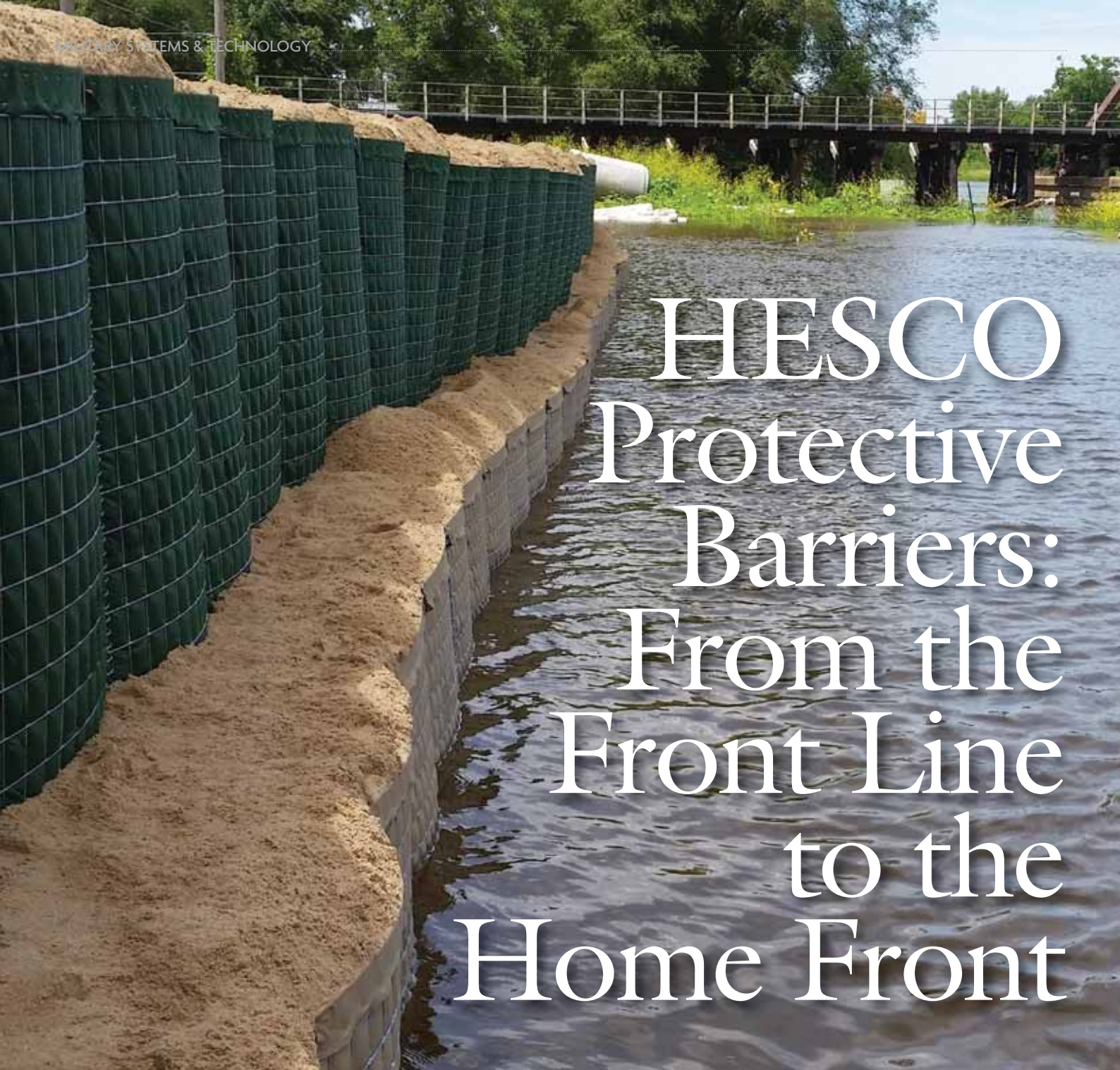
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TECHNOLOGIES, OUR MISSION IS
EXPANDING YOUR CAPABILITIES.**



Scott Safety are world leaders in the design and development of Respiratory Protection Equipment (RPE). We have a detailed understanding of the physiological and psychological burden RPE can place on users. That is why we test in the field. We apply what we learn there – as well as emerging research and technologies to every design to ensure superior capability, functionality and comfort. Irrespective of whether your requirement is for CBRN protection, Breathing Apparatus for EOD, USAR, Damage Control, Law Enforcement, Fire Fighting or for specialist applications Scott can meet your requirements- Comfortably



LET'S WORK. TO LEARN MORE VISIT: SCOTTSAFETY.COM



HESCO Protective Barriers: From the Front Line to the Home Front

IOWA – 8 July 2014. HESCO defensive barriers are best known for protecting soldiers from attack during deployment in conflict zones, but throughout the Quad Cities, HESCO barriers have been defending against a different kind of threat; the Mississippi River.

With Iowa County declared as a local disaster by the State Emergency Operations Center (SEOC) Iowa officials deployed HESCO flood barriers to protect property and businesses from the rising river, and HESCO Bastion sent its Technical Support Team to assist with the installation.

HESCO team member Aaron Ackley, a US Army veteran, has extensive experience deploying HESCO earth-filled barriers around the world from tropical storms in Thailand to Hurricane

Isaac in the US. During the construction of a HESCO flood wall around Cole's Mobile Home Court along the Iowa River, he met Richard Taylor, a resident of Johnson County. Richard spoke about his son who had served overseas with US Army and had first-hand experience with HESCO barriers:

"My son was telling me about these HESCO baskets and how they protected him in Iraq, but I never thought they would end up saving my home too."

HESCO defensive barriers are used to build protective perimeters and accommodation bunkers, creating safe havens for soldiers in the most volatile of places, and now, when returning home and faced with losing all their possession in another season of flooding,

soldiers and their families can be assured that the same level of protection they rely on during deployment will now protect them here at home.



The HESCO logo is displayed in white text on a green rectangular background. The word "HESCO" is in a bold, sans-serif font, with the "H" being stylized with a vertical bar on its left side.



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UK MOD Selects Marshall for Deployable Infrastructure Support

Support for a range of containerised deployable systems for the UK Ministry of Defence is to be provided by Marshall Aerospace and Defence Group, with G3 Systems as its partner, following the award of an enabling contract. Named 'Project Amphora', this framework contract will last up to seven years and will enable numerous and varied equipments to continue to operate successfully as Force 2020 develops.

Containerised Deployable Systems

At the heart of Project Amphora is a contractor logistic support (CLS) service which will ensure that the deployable shelter systems are fully supported to demanding operational levels.

Project Amphora

"Marshall and G3 Systems have worked very closely developing a unique and highly responsive offering before jointly bidding in a well competed bidding process," said Steve Fitz-Gerald, Chief Executive of Marshall Aerospace and Defence Group.

"The transition period for the contract to providing a full operational capability is very short and as the suppliers of the majority of the UK's shelter infrastructure, we were able to submit a low risk, fully compliant solution which gave the MOD confidence that operational capability would be achieved in the required time frame at an acceptable cost," added Mr Fitz-Gerald.



The contract includes the support of a number of deployable systems ranging from AFV Power Pack Repair Facilities, to Deployable Engineering Workshops to C4ISTAR working environments. "This contract win reflects the efforts made by both companies to integrate our approach and offer the MOD a true partnership and best value for money," said Peter Gleave, Managing Director of G3 Systems.

"The success of the team proves that SMEs can combine their resources to match the breadth and depth of major prime contractors, whilst retaining the expertise and agility associated with SMEs", added Mr Gleave.

Work on the programme is starting immediately and full operating capability is expected in the next few months.



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THE LIGHT AT THE END OF THE TUNNEL

MILITARY TRUSTED LED HEADLIGHTS

Truck-Lite LED Headlights provide life-saving visibility and are built to withstand the most rugged terrain, giving soldiers the edge they need in the field.

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Oxley Group has received a substantial order for the supply of the company's revolutionary LED landing and taxi lights on Sweden's highly regarded Saab Gripen combat aircraft.



Oxley has been working with Saab for the last 5 years to design, develop and qualify a set of high intensity landing and taxi lights for the Gripen aircraft, as the proving ground for the introduction of LED lighting across the military and commercial aircraft sector.

The Oxley LED Landing Light

These fixtures will replace the conventional halogen lights which require frequent and costly replacement due to the damage sustained by shock and vibration, and performance degradation in extreme operating temperatures. Oxley LED lights are highly resistant to shock and vibration (including gunfire) and operate

effectively across a wide range of temperatures. They are designed to deliver sustained performance in these arduous conditions and offer significant through-life cost benefits to the aircraft. Mean Time Between Failure is in excess of 13,000 hours for the landing light and 14,000 hours for the taxi light, compared to halogen units which typically require replacement after as little as 2.5 hours of service in these environments.

The new LED lights are totally self-contained and are designed as "plug and play" to allow easy retrofitting of LED units to replace halogen lights. The Saab landing and taxi lights is also NVG (Night Vision Goggle) friendly and emit significantly less infra-red radiation than a standard halogen light.

Oxley has received a production order for the supply of 140 shipsets of lights with delivery starting in August and continuing through to October 2015. Oxley currently supplies wing tip, tail light, position lights and the control box for the aircraft external lighting system on the Gripen C & D variants.

The Saab Gripen Combat Aircraft

The new order reflects Oxley long-term strategic relationship with Saab Aerospace as a

key customer and product technology development partner. A team from Oxley recently visited Saab in Sweden to discuss the latest progress on the Gripen fighter jet programme.

Both of the new lights exceed current operational requirements, with the NVG Friendly™ High Intensity LED Landing Light delivering a peak intensity greater than 200,000cd, while the rugged High Intensity LED Taxi Light has a peak intensity performance greater than 27,000cd.

Powered directly from the aircraft's 115V/400Hz supply, without the requirement for an external supply, the lights use significantly less power than existing technology – just 65W for the landing light and 37W for the taxi light. Both units are extremely robust and benefit from a toughened borosilicate clear glass lens and an aluminium housing with a matt black hard anodised finish.

Both of the units are qualified IAW MIL-STD-810F and RCTA DO-160F Aerospace standards.

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Peli™ Products launches its international Photo Contest and will take the winner to the Photokina fair in Cologne (Germany)

Cologne, Germany – July 2014 - Peli™ Products, the global leader in the design and manufacture of virtually indestructible cases and advanced lighting systems, is excited to announce its international Photo Contest for both professional and amateur photographers.

The competition is open to everyone, especially to photography and Peli products lovers, from anywhere in Europe. They are all invited to send their best pictures of Peli products “in action”. This is the perfect opportunity to be creative and show talent, taste and love for photography.

Peli will take the winner to Cologne (Germany) for a very good reason: to expose their best picture at Photokina, the world's biggest and most important trade fair for photographic and imaging industries.

In 2012, Photokina received 184.698 visitors from 166 countries, and this year many more are expected. The selected photo will be exposed in a privileged location at Peli's booth.

The deadline for entries is the 28th of August 2014, and the prize-winner will be contacted and announced on

www.facebook.com/PeliProducts on the first

week of September.

Photo Contest website

Full details of the competition's rules, prize and judging procedures are available at

www.facebook.com/PeliProducts, where you can also submit your photographs after completing the submission form.



Peli Products presents new lighting range and protection for Smart Phones and Tablets at Eurosatory



Peli ProGear™ the optimal protection for Professionals' mobile devices

In addition, Peli is showcasing its recently launched range of ultra-resistant cases to protect smartphones and tablets (fall-proof, shock-proof, dust-proof and rain-proof) that guarantee professionals keep their devices safe during everyday duties.



Vault models are the optimal solution for protecting the iPad Air™, iPad® mini, Apple iPhone® 5/5s and Samsung Galaxy S4®, that guards the device against drops and sharp-edged attacks to the screen. No other cases are crafted to a higher level of effectiveness or undergo more rigorous testing (both in the lab and in the field) than Peli.

PARIS – May, 2014 – With safety and efficiency in mind, Peli Products, the global leader in the design and manufacture of advanced portable lighting and high-performance protective case solutions, presents at Eurosatory (Hall 6. Booth KJ-467) several new product ranges to facilitate the daily missions of professionals facing tough situations.

Advanced Tactical Lights

Some of the tactical lights showcased at Eurosatory are energy-efficient bright LED lights that can endure all weather thanks to their

water-resistant (IPX4) technology. Among these models is the new:

2380R Rechargeable LED Light – NEW

The 2380R is the first rechargeable torch designed by Peli, offering powerful lighting in a compact size. It is based in the 2380 version, but using Li-ion rechargeable cell.

- Ultra-bright: +300 lumens
- Multi-colour battery status indication
- Includes a micro USB plug-in to charge



Teledyne Coax Switches Announces Low PIM COAX SERIES CCP-47D New Commercial Failsafe Transfer, DC-3GHz, Low PIM Coax Switch



Cumbernauld, UK, May 2014: Passive Intermodulation (PIM) is critical in today's market where multiple frequencies are transmitted simultaneously in wireless communications and higher data rates.

Teledyne Coax Switches introduces its new Series CCP-47D Low PIM Coax Switch. The CCP-47D is a broadband TRANSFER, electromechanical coaxial switch designed to switch microwave signals similar to a DPDT switch. The CCP-47D comes standard with 7/16th DIN Connectors designed to achieve IP3 levels of -165dBc with two carrier signals at +43dBm.

The CCP-47 Series is ideal for switching High RF Power or High Sensitive Signals. Teledyne's Low PIM CCP-47 Series ensures the most linear response with excellent galvanically matched contact system. The CCP-47 Series can handle up to 200W CW @ 3GHz and has superior RF performance such as Isolation of 70dB min @ 3GHz. Teledyne's TRANSFER design offers the most reliable, and insertion loss repeatable switches.

The CCP-47D measures 3.50 x 3.50 x 3.66 inches and has a maximum weight of 6oz (170.1g).



Teledyne's New Low PIM product line will feature a wide selection of switches. For a complete list of new Low PIM products, please visit: <http://www.teledynecoax.com/rfswitches/default.asp>

Customers may download the datasheet at

<http://www.teledynecoax.com/pdf/coaxialswitches/CCP-47D%20FAILSAFE.pdf>

For more information, visit www.teledyne-europe.com or send e-mail to sales_europe@teledyne.com.

Teledyne Relays has been the world's innovative leader in manufacturing ultraminiature, hermetically sealed, electromechanical and solid-state switching products for more than 50 years. The company's comprehensive product line meets a wide range of requirements for Commercial, RF & Microwave, Communications, Test & Measurement, Industrial, Medical, Aerospace and Military applications. In addition to Teledyne Relays, Teledyne Coax Switches offer a complete line of Coaxial Switches and Switch Matrices capable of low insertion loss, high repeatability, low intermodulation, 5 million cycle life and high power switching.

Teledyne Coax Switches Announces New COAX SWITCH SERIES CCR-38

New Commercial Normally Open Multi-Throw CCR-38 SP10T Coax Switch



Cumbernauld, UK, June 2014: Teledyne Coax Switches introduces its new Series CCR-38 Coax Switch. The CCR-38 is a broadband multi-throw, electromechanical coaxial switch designed to switch a microwave signal from a common input to any of 10 outputs. The CCR-38 Normally Open Switch covers frequencies from DC to 12GHz and is available with 12, 15, 24 and 28 coil voltages.

The expansion of the CCR-38 Series reduce switch count from 3 switches to achieve a SP10T (1 SPDT to 2 SP5T switches), thus being able to offer smaller, price competitive switching solutions.

The CCR-38 measures 3.10 x 3.10 x 2.77 inches and have a maximum weight of 9oz. (255.2g)

Customers may download the datasheets at

<http://www.teledynecoax.com/pdf/coaxialswitches/CCR-38S%20SP10T%20NORMALLY%20OPEN.pdf>

For more information, visit **www.teledyne-europe.com** or send e-mail to **sales.europe@teledyne.com**.

Teledyne Relays, has been the world's innovative leader in manufacturing ultraminiature, hermetically sealed, electromechanical and solid-state switching products for more than 50 years. The company's comprehensive product line meets a wide range of requirements for Commercial, RF & Microwave, Communications, Test & Measurement, Industrial, Medical, Aerospace and Military applications. In addition to Teledyne Relays, Teledyne Coax Switches offer a complete line of Coaxial Switches and Switch Matrices capable of low insertion loss, high repeatability, low intermodulation, 5 million cycle life and high power switching. Teledyne is highly vertically integrated, which reduces development time, qualification time, cost and lead time, while ensuring high quality and cost-effective production.

Will-Burt Subsidiary GEROH MGS Trailer Successfully Consigned to Marshall Aerospace and Defence

'Just in time' - the prototype of the MGS trailer was handed over to Marshall Aerospace and Defence Group. The trailer is part of the new ISTAR (Intelligence, Surveillance and Target Acquisition and Reconnaissance) ground control station to enter service with two Middle East armed forces. The whole system consists of the trailer and a Marshall shelter mounted on a military utility vehicle and contains ISTAR imagery interpretation equipment supplied by UTC Aerospace Systems. The system is a highly mobile solution able to keep up with deployable command centre.

The customised MGS Trailer has a gross vehicle weight of 14,300lbs, an overall length of 20.7ft and an overall width of 8ft. It is equipped with a high-capacity knuckle boom telescopic crane by FASSI (maximum load 2,200lb). The crane is needed to load and unload a mobile FISCHER PANDA generator (weight 1,430lbs) and three transport boxes with additional equipment (weights between 605lbs and 825lbs). Furthermore an additional non-removable 30kVA / 400V generator with approximately 2,420lbs is installed on the trailer platform to give the system its own integral power source. Customised engineering and integration at its best.

The system passed all the required MIL-STD tests successfully and will enter the service in the first quarter 2014.



About The Will-Burt Company:

The Will-Burt Company (www.willburt.com), located in Orrville, Ohio, USA, is the world's premier manufacturer of mobile telescoping mast and tower solutions. We offer virtually every payload elevation and integration solution from the three top brands; Will-Burt, GEROH and Integrated Tower Solutions (ITS) – for military, fire, cellular, broadcast, entertainment and other applications. Will-Burt also designs and manufactures military and other shelters made of all-composite materials that deliver higher performance at lower life cycle cost than metal or partial composite shelters. Will-Burt's LINX security solutions provide integrated access control and intrusion detection certified

to protect critical assets. Will-Burt offers a variety of metal fabrication and manufacturing services backed by an ISO 9001:2008 certified quality system. Incorporated in 1918, Will-Burt is 100% employee-owned and is classified as a small business.





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