



IMI's 'overmatching' capabilities for the infantry squad level highlighted at the 2012 AUSA Annual Meeting & Exposition

Ramat Hasharon, Israel, October 14, 2012 - Israel Military Industries Ltd. (IMI) will participate in the 2012 AUSA Annual Meeting & Exposition, held in Washington DC, at the Walter E. Washington Convention Center, October 22-24, 2012. IMI will be located at Hall D, Booth **6351**.

IMI's Booth includes various 'overmatching' capabilities for infantry squads, protection and survivability capabilities for AFVs and combat aircraft, a new 155mm Super - High-Explosive (S-HE) Artillery projectile and more.

The exhibition sheds light on IMI's successful partnerships with various leading American defense companies in developing and marketing high-performance military systems, in accordance with the US Army and other US armed forces' requirements. Amongst these are a 120mm guided mortar bomb with **Raytheon** (Booth **7216**); the Joint Assault Bridge (JAB) program, headed by **DRS Technologies'** (Booth **524**) team; Active Protection Systems with **GDATP** (Booth **6243**) and Advanced Spectral Flares with **Esterline Defense Technologies** (Booth **853**).

Recent conflicts have focused attention on the importance of empowering the infantry squad level with the ability to achieve all operational objectives, decisively and quickly, with minimal casualties - also known as 'overmatch'.

The AUSA Annual Meeting & Exposition provides IMI with an excellent opportunity to highlight several of its 'overmatch' solutions designed to provide infantry squads with improved lethality, survivability and mobility on the modern battlefield, as well as enhanced situational awareness in the Contemporary Operating Environment. These include:

The **GMM120** – a 120mm Guided Mortar Bomb with a dual guidance system, utilizing both GPS and Semi Active Laser (SAL), for a highly-accurate solution against infantry troops, LAVs and other targets. The next-generation mortar bomb enables engagement of enemy forces positioned out of the line of sight, including those located on a reverse slope. **GMM120** has a maximum range of 9 kilometers, with hits being scored within 10 meters CEP (Circular Error Probability) of the aim point. The mortar bomb minimizes collateral damage and offers first bomb fire-for-effect, reducing the number of bombs needed to successfully defeat moving targets.

MPRS – a Multi-Purpose Rifle System designed to improve the accuracy, lethality, precision and target engagement capabilities of existing weapon systems using 40mm Low-Velocity (LV) grenade ammunition. This is achieved through combined advanced Fire Control System (FCS) with integrated optics, Laser Range Finder (LRF), processor, and multi-purpose grenades, equipped with a programmable electronic fuze. The grenades feature a choice between Air Burst (AB), Point Detonation (PD) and Point Detonation Delayed (PDD) modes of operation. In AB mode, the appropriate elevation is transferred from the FCS to the grenade's fuze while the grenade is still in the launcher. In PDD Mode, the fuze can be set to explode at a preset delay after impact, enabling engagement of soft targets, such as a window. The FCS enables easy transition to and from 5.56 and 40mm ammunition as well as dual sight for both munition types.

IMI's new shoulder-launched **SHIPON FFE** - Individual Assault Munition is making its debut display at AUSA. The **SHIPON FFE** is a man-portable, fully disposable shoulder-launched weapon system with Fire-From-Enclosure (FFE) capability for close range combat. The weapon system incorporates an all-electronic "smart" FCS and multi-purpose warhead with selectable modes of operation – enabling engagement of multiple targets, such as infantry in urban terrain (follow through grenade), behind walls or in the open (AB mode). With an effective range of 300 meters, **SHIPON FFE** guarantees a very high hit probability (70% at 300 and 90% at 200 meters). In anti-personnel AB mode of operation,

SHIPON FFE has a maximum range of 800m. The weapon system complies with the US Army's Individual Assault Munition (IAM) potential requirements.

A multi-functional **Insensitive Munition (IM) Safe & Arm Mechanism** for the **M67** Hand Grenade. The **Safe & Arm Mechanism** can be used as an add-on kit to any hand grenade, providing infantry soldiers enhanced safety and reliability in operation, training and transportation. The mechanism maintains identical lethality, handling and dimensions to the standard hand grenade. Using the **IM Safe & Arm Mechanism**, hand grenades meet most IM requirements: up to 0.5" bullet impact; Fast & Slow Cook-off (FCO & SCO), and Sympathetic Detonation.

WALL BUSTER – a remotely-activated pyrotechnic wall-breaching device designed to create a passageway for military and law enforcement forces. The lightweight compact device utilizes Flexible Linear Shaped Charges (FLSC) to create a controlled explosion in the desired area. **WALL BUSTER** enables quick and easy operation, while causing little to no damage to the surrounding area or to the occupants of the room being breached.

MATCHBOX – a new electronic time initiator designed to enable detonation of explosives from a safe distance. The initiator incorporates an electronic Safe & Arm mechanism, making it possible to determine the preferred detonation time. Contrary to existing detonating devices, which require a primer cord, with the new initiator, infantry troops can arrive at the field with all the explosive components assembled and all that remains is determining the time sequence. The initiator's programmable time switch enables different time intervals, which can be set in accordance with the customer's needs.

MATCHBOX is scheduled to be supplied to the IDF throughout 2013.

Two Bridging Systems will be highlighted at AUSA: the **Joint Assault Bridge (JAB)** – an improved Armored Vehicle Launched Bridge (AVLB) and the **Foot Mobile Assault Bridge (FMAB)** - in use and combat proven by the US Marine Corps (USMC) in Afghanistan.

The **JAB** program is part of a multi-service initiative to replace the current AVLB in service with the US Army, with a launch and recover, hydraulically actuated AVLB Military Load Classification MLC-85 Scissor Bridge. The system is designed to provide Mobility Augmentation Companies with fast and easy bridging capabilities.

IMI is part of **DRS Technologies'** team, which has recently been awarded a **JAB** EMD contract by the US Army.

FMAB is a combat-proven, lightweight, aluminum alloy, tactical vehicle-transportable, manually erected assault bridge designed to enable fully equipped infantry troops to cross wet or dry obstacles, up to 36 meters long.

Recently, IMI has been awarded the United States Department of Defense (DoD) Defense Contract Management Agency (DCMA) Certificate of Appreciation for its outstanding industry partnership in producing the **FMAB** for the USMC.

X3 - a new Multi-Hit, bullet-resistant, lightweight body armor insert. The ballistic insert can be used in a wide range of vests, including the US Army's Interceptor Body Armor (IBA) - offering lightweight protection against small arms ammunition, with excellent durability and reliability. **X3** incorporates a new patent-pending technology for protection against Armor Piercing (AP) and Ultra High Hardness (UHH) cartridges.

A wide range of **Small Caliber Ammunition** is on display. The company specializes in the manufacture of high quality military, law enforcement and commercial grade cartridges, which are supplied in accordance with NATO, MIL-SPEC, IDF, SAAMI and CIP standards. These include various 5.56, 7.62, 9, 12.7mm (0.5") and 0.338" Lapua Magnum cartridges. IMI's **5.56mm BALL** and **9mm BALL** cartridges have been NATO qualified. IMI also offers various AP, sniping, subsonic, training and environmentally-friendly (lead-free) cartridges.

IMI's **Small Caliber Ammunition** is well-known and highly-valued by the U.S. Army, IDF, armed forces of major NATO members, law enforcement units and various customers in commercial markets worldwide.

IMI will also feature its **IRON WALL** – a passive protection kit against medium-sized Improvised Explosive Devices (IEDs), such as Explosively Formed Penetrator (EFP) and Steel ball charge Focus Fragments (SFF) - two deadly threats that have proliferated in recent asymmetric combat engagements. The armor kit also provides protection against small arms ammunition. With a penetration capability of up to 60mm of RHA steel, **IRON WALL** is ideal for standard armored vehicles and M-113 Armored Personnel Carriers (APCs).

In addition, IMI is highlighting its Active Protection Systems (APS), jointly developed with its US partner **GDATP** (Booth **6243**). These include:

The **IRON FIST** - an advanced 'Soft' and 'Hard-Kill' APS aimed at enhancing self-defense capabilities of armored platforms, ranging from light to heavy AFVs. The system incorporates two layers of protection, including both passive and active sensors for threat detection and fire control. The first layer comprises an Electro-Optical (E/O) directional jammer ('Soft-Kill') and the second layer a 'Hard-Kill' interceptor, fired from a traversed launcher against incoming threats. The system effectively defeats RPGs, Anti-Tank Guided Missiles (ATGMs) and tank cartridges, including Kinetic Energy (KE). In addition to 'Soft' and 'Hard-Kill' protection, **IRON FIST** identifies the enemy firing positions, enabling rapid counterstrike and eliminating repeated attacks.

BRIGHT ARROW – a combined APS and Advanced Stabilized Remote Weapon Station (ASRWS) - delivering firepower, survivability and situational awareness all in one system. The system provides a unique solution for overcoming the weight, volume, power and cost constraints LAVs typically face. In the event of an attack, the system immediately engages the threat, employing 'Soft' or 'Hard-Kill' countermeasures and responds with its stabilized machine gun. In addition, the system provides 360° situational awareness and early warning – effectively facilitating rapid detection, engagement and overmatch of threats, by utilizing its sensor suite and remote fire capability. The system is based on IMI's **IRON FIST** APS and **WAVE** family of Advanced Stabilized Remote

Weapon Stations (ASRWS) for 5.56mm; 7.62mm; 12.7mm machineguns and 40mm Grenade Launchers.

SHOCK ABSORBER – a man-portable APS, designed to protect dismounted troop deployments and stationary targets. The lightweight system offers an effective, portable 360° situational awareness and 'Soft-Kill' E/O directional jammer-based protection system against second generation ATGMs. The system provides accurate detection of the enemy launch position as well as an immediate alarm of launched threats and small arms bursts. The system can easily be deployed on the ground within minutes and enables integration on vehicles and naval vessels, in addition to being carried by dismounted troops. **SHOCK ABSORBER** is also based on IMI's **IRON FIST** APS technologies.

At the **EXPLORA SECURITY** Booth (**2205**), visitors can see IMI's **WAVE 200** remote controlled weapon station, mounted on **EXPLORA's Dnyacell Protective Platform**.

WAVE is a family of remote controlled weapon stations, developed to answer the modern battlefield challenges and needs, by providing a complete solution for targeting and weapon handling from within a protected or remote position. The **WAVE** family (**200/300/400**) can be used for force protection of static posts, in addition to all types of combat vehicles and marine vessels. **WAVE 200** can be used to mount a 7.62mm MAG medium machine gun; a 0.5" (12.7mm) heavy machine gun or 40mm automatic grenade launcher. **WAVE 300** is designed for 7.62mm PKT and 12.7mm NSVT eastern European weapons. **WAVE 400** is a low-cost version, which incorporates a 7.62mm MAG, M240 medium machine gun or 0.5" M2 HB heavy machine gun. The weapon station is equipped with a variety of E/O configurations based on customer demands. **WAVE** systems have been fielded with a number of customers, including NATO and Asian armies.

IMI is launching at AUSA a new 155mm **Super – High-Explosive (S-HE)** artillery projectile. The projectile, dubbed **M454**, introduces a unique solution based on a pre-fragmented drogue parachuted warhead, intended

to provide artillery forces with a better capability to attack infantry dismounts and LAVs. The **M454** is up to 5 times more lethal than standard HE projectiles. Its increased effectiveness significantly reduces the logistic tail.

IMI will also display its combat proven **ADVANCED SPECTRAL FLARES** for rotary and fixed-wing aircraft – the **ASF-3** & **ASF-6**, along with a newly developed Advanced Spectral 36mm round Flare, designated **L636** by IMI and **Arm-017** by **Esterline Defense Technologies (EDT)**. IMI's state-of-the-art flares provide combat aircraft with increased survivability against most MANPADS on today's battlefield. IMI has joined forces with **EDT** in producing and marketing the flares in the US market.