

RGW90 RGW60 ASM

System Overview



MISSILES AND ROCKETS

SHOULDER LAUNCHED MUNITIONS

Recoilless Grenade Weapon Anti-Structure Munitions (ASM) - designed to dominate complex and urban terrain and to engage targets from protected positions without exposing soldiers to enemy fires and effects. The one-shot disposable 60mm and 90mm shoulder launched weapons combine the best capabilities of the M72 LAW, M136 AT4, M136E1 CS and the M141 BDM CS to satisfy the XM919 Individual Assault Munition (IAM) requirements in two form factors.

RGW SYSTEM CONCEPT

The RGW ASM encompasses a variety of Davis Gun principles to optimize operation and performance that provide the infantryman a competitive advantage to achieve battlefield superiority in complex environments.

RGW90 products are featuring the latest technology developments in the field of interior, exterior and terminal ballistics. More than 18 armed forces and services worldwide have already made the choice to equip their operators with our combat-proven systems.

MISSION SPECTRUM

- » Anti-Tank
- » Anti-Vehicle
- » Anti-Structure
- » Anti-Personnel
- » Fire-From-Enclosure (FFE)
- » Day and Night Operations



KEY CHARACTERISTICS

- | Recoilless | Single soldier operated
- | Firing from enclosed and confined space
- | Standard sight 3x magnification
- | Fire control sight adaptable
- | Night and thermal sight adaptable
- | Fully NATO-qualified



KEY CHARACTERISTICS

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- | Firing from enclosed and confined space
- | Standard sight 3x magnification
- | Night and thermal sight adaptable
- | In final development and qualification

RGW90 ASM

ANTI-STRUCTURE MUNITION

WARHEAD TYPE *Dual mode anti-structure tandem warhead*

Firing modes	Mousehole and Blast
Caliber	90mm
Weight	19.1lbs
Length	39.3in
Range	20-400m
Temperature range	-34°F up to +160°F
Structural target performance	Double reinforced concrete, triple brick, adobe wall, earth and timber bunkers, and light armor penetration

RGW60 ASM

ANTI-STRUCTURE MUNITION

WARHEAD TYPE *Single mode anti-structure tandem warhead*

Firing mode	Blast
Caliber	60mm
Weight	16lbs
Length	40.9in
Range	15-300m
Temperature range	-4°F up to +145°F
Structural target performance	Double reinforced concrete, triple brick, adobe wall, earth and timber bunkers, and light armor penetration
Vehicle performance	Lethal blast against armored vehicles

Our Features – Your Advantage

Our RGW90 munitions vary in their mission purpose and target spectrum. They share the same design concept and common key features. All of these features make our RGW90 family of weapons exceptionally versatile.

1

DIFFERENT SIGHT OPTIONS

Our weapons are highly flexible and customizable to meet the user's needs. They can be equipped with a variety of sight options, from standard sights up to intelligent fire control units that include laser range finders, dynamic aiming control and offer fuse programming functionalities via interface communication with the effector. Via standard Picatinny Rail, it is possible to adapt a range of night and thermal sights.

2

SUPERIOR WARHEAD DESIGN

With more than 60 years of experience in the development of warheads, we know a thing or two about designing effective performance. Armor penetration, lethality, reliability: in worldwide comparison, our RGW90 weapons feature the best performing warheads in their class and deliver maximum effect on target.

4

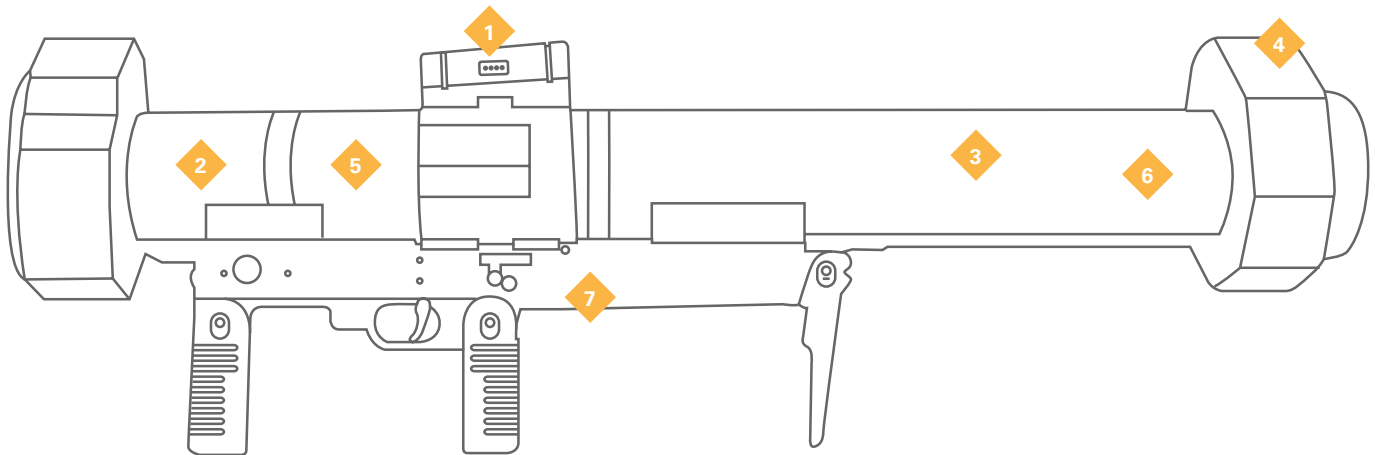
LIGHTWEIGHT MATERIALS

With RGW90 munitions already being lightweight, our engineers are constantly exploring new production processes and advanced materials to reduce overall system weight even more. Our munitions are getting lighter while maintaining or improving all of their performance data.

3

ADVANCED LAUNCH TUBE DESIGN

RGW90 launch tubes are wrapped by a winding of high strength aramid fibre in order to keep tube pressure tight during firing. Precise winding patterns ensure minimum weight and maximum safety for the operator.



5

ROCKET MOTOR TECHNOLOGY

Sustainer rocket motors keep the velocity of our RGW90 warheads constant during the flight phase. The thrust level of the rocket motor is tailored to compensate the aerodynamic drag of the projectile. This concept minimizes crosswind influence on the trajectory and thus leads to unmatched hit probability.

6

ADVANCED COUNTER MASS DESIGN

RGW90 weapons work according to the Davis Gun principle, i.e. the propellant powder is located inside the launch tube between the projectile and the counter mass. On ignition of the propellant powder the projectile and the counter mass leave the launch tube in opposite directions, resulting in little to no recoil of the weapon.

7

EASE OF USE AND ERGONOMICS

The firing unit, which is permanently attached to the launch tube, gives the operator full control over the weapon and is stunningly intuitive to use. Handling of the system is as easy as unfolding the pistol grips, switching the safety lever and being ready to fire within seconds. All RGW90 weapons are single soldier operated. With only little training required, there is no need for a specialized gunner or even a fire team within the unit. Every soldier is a shooter!

Our advanced counter mass design:

- » Reduces back blast, noise and signature level
- » Reduces temperature variance
- » Enables firing from enclosures and confined spaces of all RGW90 products



Maximum Mobility

FOCUS ON LIGHTWEIGHT AND MANEUVERABILITY

All RGW60 variants share the same design concept as our famous RGW90 series of weapons. We have made sure to optimize every component according to the latest technology standards. That makes each and every RGW60 munition a highly valuable assault asset.

COMPACT FIREPOWER

RGW60 – Family is the warfighter's system of choice when it comes to lightweight shoulder-launched firepower. Surgically precise and intuitive to use, RGW60 products are the go-to individual assault munitions for light forces when engaging opponents swiftly and at close quarters.

RGW60 SYSTEM CONCEPT

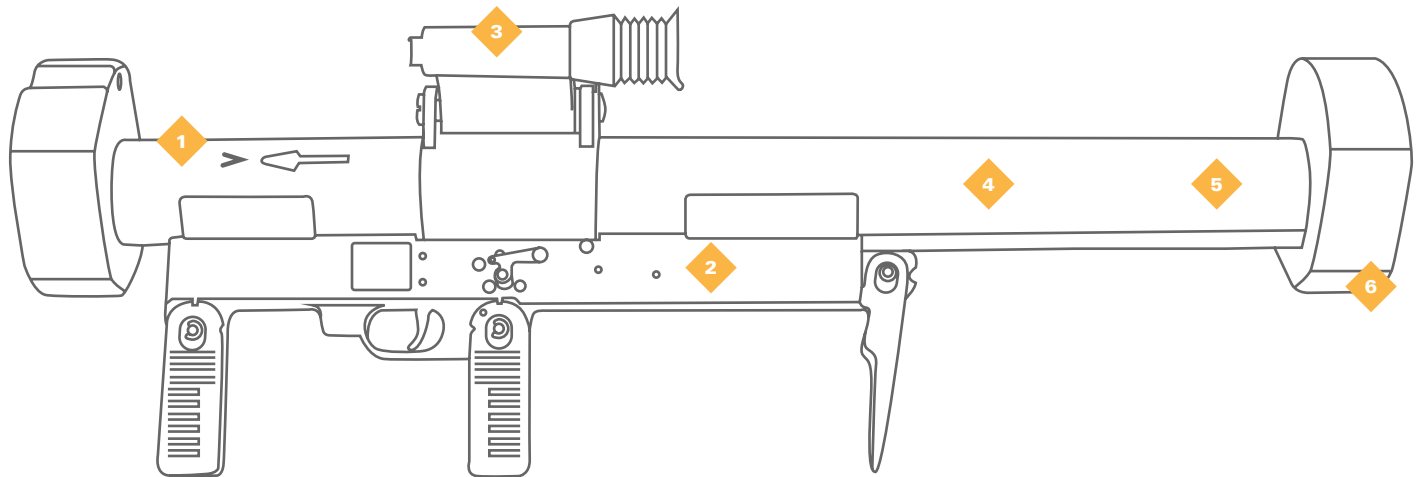
RGW60 – Family encompasses a variety of recoilless, shoulder-launched, single-soldier operated, disposable weapons for anti-tank, anti-vehicle and anti-structure uses. These 60mm caliber ammunitions are based on our proven RGW system concept that features the highest technology standards in the field of shoulder-fired weapon systems. The RGW60 balances the needs of the soldier to offer a superior light-weight shoulder launched munition that can engage a variety of target sets with precision and



unmatched lethality. **Armed Forces worldwide rely on these combat proven munitions.**

MISSION SPECTRUM

- » Anti-Tank
- » Anti-Vehicle
- » Anti-Structure
- » Anti-Personnel
- » Fire-From-Enclosure (FFE)
- » Day and Night Operations



1

SUPERIOR WARHEAD DESIGN

Our 60mm warheads are initially accelerated to a very high muzzle velocity upon firing, which gives them a flat trajectory and great precision. They might be scaled down in dimensions compared to our 90mm warhead series, but still provide best class penetration and lethality against armored vehicles, shelters and fortified positions.

2

EASE OF USE AND ERGONOMICS

For our RGW60 series of ammunitions, we follow our strict philosophy of making our systems intuitive and easy to use – in training as well as under combat stress! The firing unit works like that of an assault rifle. After unfolding the pistol grips and switching the safety lever, the weapon is ready to fire in almost no time. With only little training required, RGW60 is an ultimate individual assault weapon, as any shooter can pick it up within seconds and precisely engage their target.

3

INTUITIVE SIGHTING DEVICE

RGW60 weapons come with a fully disposable standard sight with 3x magnification and intuitive and clean reticle design. Thermal and night vision devices can easily be adapted via a Picatinny Rail interface.

4

ADVANCED LAUNCH TUBE DESIGN

RGW60 launch tubes, just as their RGW90 relatives, are wrapped by a winding of high strength aramid fibre in order to keep tube pressure tight during firing. With sophisticated and optimized winding patterns, we ensure minimum weight and maximum safety for the operator.

5

FIRE FROM CONFINED SPACE! – OUR COUNTER MASS DESIGN

RGW60 weapons work according to the Davis Gun principle, minimizing gases and pressurization in the area around and behind the shooter. Therefore, all of our munitions have an inherent capability to be fired safely from within confined space while minimizing the risk of traumatic brain injury from overpressure associated with other systems. These features are indispensable in complex urban combat.

6

LIGHTWEIGHT MATERIALS

For individual assault ammunitions, every gram of spared weight counts. We have made sure to design our RGW60 series to be lightweight by exploring advanced materials and refined production processes. The minimal overall system weight ensures that small fire teams and light forces retain their mobility and ability to swiftly strike their adversaries.

Sight Options

EYES ON TARGET

Standard Sights

Cost-efficient and easy-to-operate aiming options for our munitions up to target distances of 550yd

- » Fully disposable together with the launch tube after firing
- » 1.5x up to 3x magnification
- » Up to 550yd target distance
- » Range estimation frames
- » Lead marks for moving targets
- » Compatible with clip-on thermal and night vision optics



Training Options

FOCUS ON COMBAT READINESS

Soldiers can be trained very fast and efficiently to operate our products. Without having to conduct complex procedures or ammunition loading before being ready to fire, handling of our RGW90 & RGW60 munitions is intuitive and easy. Even first-time shooters will yield excellent hit probability and results.

From weapon handling instruction to full scale live-fire exercises. We offer a range of preparatory options that translates into a comprehensive training system to ensure that soldiers will efficiently achieve peak combat readiness. Target-oriented, quickly, and at low costs.

Our portfolio of training systems includes:

- » Drill weapons
- » Mobile training simulators
- » Sub-caliber training weapons
- » Full-caliber training weapons (RGW90)

