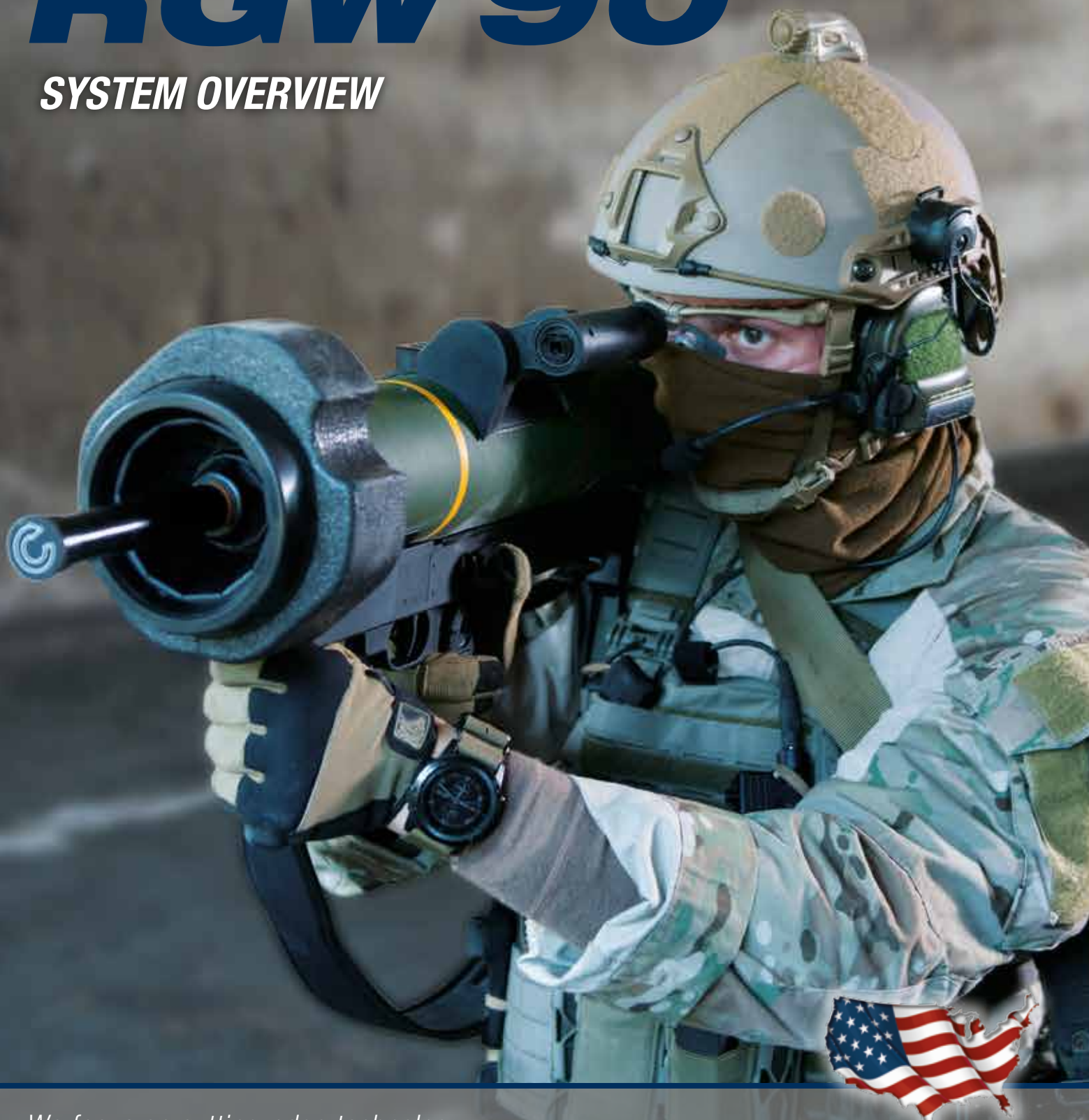


DND

Dynamit Nobel Defence

RGW 90

SYSTEM OVERVIEW



We focus on cutting-edge technology

GAME CHANGER

RGW90 - Family is the infantryman's ultimate set of instruments for winning in a complex battlefield. It is a complete toolbox of shoulder-launched infantry weapon systems giving dismounted forces the edge over any opponent - in all operational scenarios and climatic environments.



MISSION SPECTRUM

- Anti-Tank
- Anti-Vehicle
- Anti-Structure
- Anti-Personnel
- Smoke
- Illumination
- Practice

RGW90 - SYSTEM CONCEPT

DND's RGW90 - Family encompasses a variety of Davis Gun principle, recoilless, shoulder-launched, single-soldier operated, disposable weapons for anti-tank, anti-structure and multipurpose uses. Our munitions are designed to be operated against a wide spectrum of targets and offer different firing modes for maximum flexibility. RGW90 products are featuring the latest technology developments in the field of interior, exterior and terminal ballistics. More than 14 armed forces and services worldwide have already made the choice to equip their operators with our combat-proven systems.



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 performing technology that is ready for any mission.

DIFFERENT SIGHT OPTIONS

Our weapons are highly flexible and customizable tools. 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.

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.

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.



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.

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.

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!

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.

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.

RGW90 HH

HEAT/HESH

Warhead Type: Dual mode mono shaped charge

I Firing modes: High Explosive Anti-Tank and High Explosive Squash Head I Caliber: 3.54 in I Weight: 16.5 lb
I Length: 37.8 in (HESH mode) / 42.5 in (HEAT mode extracted spike) I Range: 20 – 500m I Temperature Range: -50°F up to +160°F
I Steel target penetration: >19 in RHA I Structural target performance: triple brick wall

Key characteristics:

I Recoilless I Single soldier operated I Firing from enclosed and confined space (529 ft³ room size)
I Standard and fire control sight adaptable I Night and thermal sight adaptable I Fully NATO-qualified I In service and current production



RGW90 HH-T

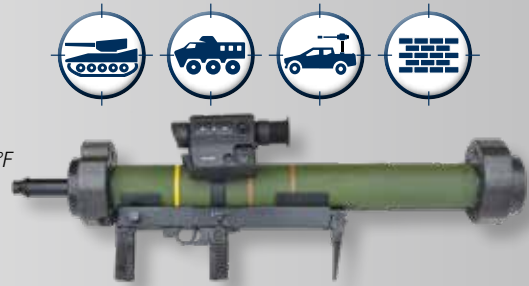
HEAT/HESH-Tandem

Warhead Type: Dual mode tandem shaped charge

I Firing modes: High Explosive Anti-Tank and High Explosive Squash Head I Caliber: 3.54 in I Weight: 17.6 lb
I Length: 37.8 in (HESH mode) / 42.5 in (HEAT mode extracted spike) I Range: 20 – 600m I Temperature Range: -50°F up to +160°F
I Steel target penetration: >27.5 in RHA or >23.6 in RHA + ERA I Structural target performance: triple brick wall

Key characteristics:

I Recoilless I Single soldier operated I Firing from enclosed and confined space (529 ft³ room size)
I Standard and fire control sight adaptable I Night and thermal sight adaptable I In NATO-qualification I In final development



RGW90 LRMP

Long Range Multipurpose

Warhead Type: Blast and fragment (Natural fragmentation + tungsten balls)

I Firing modes: Airburst and Impact I Caliber: 3.54 in I Weight: 19.6 lb I Length: 39.3 in
I Range: 20 – 600m (Impact Mode) and 85 – 1200m (Airburst Mode) I Temperature Range: -50°F up to +160°F
I Fragmentation area: 49 yd x 33 yd I Structural target performance: triple brick wall / reinforced concrete wall

Key characteristics:

I Recoilless I Single soldier operated I Firing from enclosed and confined space (529 ft³ room size) I Programmable smart fuse
I Fire control sight adaptable I Night and thermal sight adaptable I Fully NATO-qualified I In service and current production



RGW90 ASM

Anti Structure Munition

Warhead Type: Dual mode anti-structure tandem warhead

I Firing modes: Mousehole and Blast I Caliber: 3.54 in I Weight: 19.1 lb I Length: 39.3 in I Range: Range: 20 – 500m
I Temperature Range: -34°F up to +160°F I Structural target performance: Man-sized openings in field fortifications
(wood + earth + sandbags) or adobe walls or reinforced concrete walls

Key characteristics:

I Recoilless I Single soldier operated I Firing from enclosed and confined space (529 ft³ room size)
I Fire control sight adaptable I Night and thermal sight adaptable I Fully NATO-qualified I In service and current production



RGW90 Illum

Illumination - IR or Visual

I Caliber: 3.54 in I Weight: 20.2 lb I Length: 39.3 in I Range: 350 – 1200m I Temperature Range: -50°F up to +160°F
I Illumination duration: >40 sec I IR illumination performance (0,8 µm-1,2 µm): 160W/sr I 546 yd illumination radius

Key characteristics:

I Recoilless I Single soldier operated I Firing from enclosed and confined space (529 ft³ room size)
I Fire control sight adaptable I Night and thermal sight adaptable I Fully NATO-qualified
I In service and current production



RGW90 Smoke

Red Phosphor Smoke Screen

I Caliber: 3.54 in I Weight: 19.6 lb I Length: 39.3 in I Range: 20 – 1200m I Temperature Range: -50°F up to +160°F
I Smoke screen creation: 215 ft² after 1,5 sec and 540 ft² after 5 sec I Visibility coverage of the smoke screen:
5 sec against IR and 20-30 sec against visual

Key characteristics:

I Recoilless I Single soldier operated I Firing from enclosed and confined space (529 ft³ room size) I Fire control sight adaptable
I Night and thermal sight adaptable I In NATO-qualification I In qualification and pre-production



SIGHT OPTIONS

Eyes on target



STANDARD SIGHTS

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

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



FIRE CONTROL UNITS

Providing the shooter with maximum control and
information throughout the aiming and firing
process to ensure high hit probability at ranges
up to 1315 yd.

- I Quickly adaptable
- I 5.5x or 4x magnification
- I Up to 1315 yd target distance
- I Environmental sensors
- I Laser range finder
- I Ballistic computer
- I Dynamic modes for moving targets
- I Compatible with clip-on thermal and night vision optics



THERMAL CAMERAS

Observation and targeting upgrade for night
and daytime scenarios.

- I Uncooled micro-bolometric technology (LWIR)
- I Clip-on
- I Quickly adaptable
- I Minimum time to image
- I Modular software design
- I Can also be used as standalone



NIGHT VISION SCOPES

Lightweight clip-on night vision scopes to
conquer darkness.

- I Image intensifier night monocular
- I Clip-on
- I Quickly adaptable
- I Can also be used as standalone

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 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:

- I Drill weapons
- I Mobile training simulators
- I Sub-caliber training weapons
- I Full-caliber training weapons



Dynamit Nobel Defence

Dynamit Nobel Defence GmbH

Dynamit Nobel Defence GmbH (DND) is a German medium-sized defence company. DND is a direct successor of the former Dynamit Nobel companies belonging to the Alfred Nobel Group. We look back at more than 60 years of experience in the development and production of shoulder-launched weapons for anti-tank, anti-armor, and multipurpose uses. Today, we are a full system supplier and global technology leader, trusted by German and international armed forces and services worldwide.

DND is located in Burbach, within an industry-rich region ca. 100 km north of Frankfurt. Our premises cover 1.000.000 square meters with 260 buildings designed for high technology development, manufacturing and testing of our product range. Our more than 380 professionals are committed to provide our customers more than just the most reliable state-of-the-art products and services – we strive to provide outperforming technology and unmatched effect on target.

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We focus on cutting-edge technology

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