



Hanwha
Defense USA



COMPANY OVERVIEW





CONTENTS

OVERVIEW

HANWHA GROUP
HANWHA DEFENSE USA

03

FIRES & PRECISION STRIKE

K9 FAMILY | MUNITIONS | CHUNMOO

04

INTEGRATED AIR & MISSILE DEFENSE

KVLS-II | M-SAM

07

SHIPBUILDING

NSMV | MRIV | MEDIUM-RANGE TANKER

08

AUTONOMOUS & UNMANNED SYSTEMS

H38 | MOJAVE STOL

10

ADVANCED MANUFACTURING

SMART-YARD AND ENERGETICS PRODUCTION

12

HANWHA IN THE UNITED STATES

NATIONAL INDUSTRIAL FOOTPRINT

13

GLOBAL LEADER PROVIDING TOTAL DEFENSE SOLUTIONS

You can't change the world without challenging the status quo.

Founded in 1952, Hanwha has grown quickly by anticipating and responding to changing business environments and developing solutions to the world's most pressing challenges.

Our balanced global business portfolio includes aerospace & defense, energy & maritime solutions, finance, and retail & services. With more than 70 years of expertise across these core industries, we bring together a unique mix of groundbreaking innovation and operational strength.

These advantages have made us the 5th largest business in South Korea and put us in the Fortune Global 500. In 2024, we were the only Korean company named to the TIME 100 Most Influential Companies list.



A NEW HORIZON FOR AMERICA'S DEFENSE READINESS



Hanwha Defense USA (HDUSA) is a U.S.-based defense company delivering combat-proven military platforms, advanced maritime systems, and next-generation munitions to American and allied armed forces. Founded in 2021 as a defense subsidiary of Hanwha Aerospace, HDUSA bridges decades of global defense manufacturing excellence with an expanding American industrial footprint — producing systems where they are fielded, building local workforces, and developing layered supply chains engineered to surge on demand. With operations spanning land systems, shipbuilding, munitions, and autonomous maritime platforms, HDUSA is rapidly becoming a trusted long-term partner to the U.S. military.



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FIRES & PRECISION STRIKE

K9MH NEXT-GENERATION MOBILE HOWITZER

The K9 Mobile Howitzer is the Total Artillery Solution: proven, available, and built for the fight ahead. Featuring the same turret as the K9A2, it was recently selected for the U.S. Army's Mobile Tactical Cannon program.

KEY CAPABILITIES

LETHAL:	High rate of fire using the proven CN98 armament from the K9 SPH
LONG-RANGE:	155 mm firepower designed for extended-range engagements
MOBILE:	8x8 platform provides tactical, operational, and strategic mobility
SURVIVABLE:	Armored crew protection and rapid shoot-and-scoot capability
RELIABLE:	Uses proven, common technologies from the K9A2
HIGH-ENDURANCE:	Automated ammunition handling and rapid resupply via the K10 MARV



K9A1 THUNDER SELF-PROPELLED HOWITZER

The K9 Self-Propelled Howitzer combines long-range 155 mm firepower, a high rate of fire, mobility, survivability, and an automated ammunition loading system. Operated by 10 countries with more than 2,700 cannons fielded globally, K9 supports a range of Korean, U.S., NATO-standard, and other allied projectiles and propellants. Utilizes the CN98, JBMoU compliant, 155mm, 52-cal common gun system across all K9 variants.



K9A2 NEXT-GENERATION SELF-PROPELLED HOWITZER

The K9A2 combines the K9 Thunder chassis with a new, fully automated turret. Its autoloader increases the rate of fire while reducing the number of crew required on board. The system improves mission capability and reduces crew fatigue while maintaining the drive power of the original K9 Thunder.



K9A3 EXTENDED-RANGE MANNED-UNMANNED ARTILLERY

Unveiled by Hanwha Aerospace in 2025, the K9A3 is an extended-range 58-cal system designed for manned-unmanned teaming. The new turret has a range of up to 80 kilometers, significantly expanding battlefield reach compared with previous models.



K10

AMMUNITION RESUPPLY VEHICLE

The K10 is the world's first fully automated ammunition resupply vehicle, designed to maximize the combat effectiveness of the K9 family. Automated ammunition handling and transfer enable rapid resupply while allowing artillery formations to sustain mobility and operational tempo in the field.

K10 automation is being transferred to a wheeled platform (K10MARV) to provide the same resupply capability to the K9MH.

KEY CAPABILITIES

- Carries two full K9 turret loads
- Resupplies howitzer in under 20 minutes
- Enables fully automatic transfer for projectiles and propellants
- Future upgrades could include remote operations/autonomy



MODULAR CHARGE SYSTEM (HW70)

BI-MODULAR CHARGE SYSTEM FOR 155 MM ARTILLERY

Hanwha's MCS (HW70) is a JBMoU-compliant bi-modular charge system compatible with both 52-cal and 39-cal artillery guns.

KEY CAPABILITIES

- **FLEXIBLE:** Adjustable propellant quantities support specific ranges and firing conditions
- **HIGH-PERFORMANCE:** High-strength Combustible Cartridge Case is designed to withstand faster rates of fire, with an enhanced central ignition system for improved performance
- **INTEROPERABLE:** NATO-compliant and compatible across a wide range of 155 mm artillery platforms, including the K9 Self-Propelled Howitzer



FUZES

ARTILLERY, MORTAR, ROCKET, AND SMALL-ARMS APPLICATIONS

Drawing on accumulated experience and advanced fuze technologies, Hanwha develops and manufactures fuzes for artillery, mortar, missile, and related applications, supporting a broad range of munition and weapon-system requirements.

PRODUCTS

- **K519:** Superquick or delay action, point detonating
- **HW594A:** Point detonating
- **HW594A2:** NATO compliant, point detonating delay (machine-type delay)
- **HW594A3:** NATO compliant, point detonating delay (machine-type delay) Multi-option fuze for artillery
- **HW60:** Proximity, time, point detonating, point detonating delay, SD Electronic time
- **HW568:** Luminous setting ring, operation in either time or point detonating mode



CHUNMOO MULTIPLE ROCKET LAUNCHER SYSTEM



The Chunmoo precision-strike system combines high mobility with powerful firepower. A common launcher provides flexibility across mission requirements by supporting:

- Short-range munitions
- Medium-range munitions
- Long-range munitions
- Training rounds

Two launch pod containers can accommodate different missile types, enabling operators to tailor the system's firepower to the mission.

CHUNMOO AMMUNITION CARRIER

The Chunmoo Ammunition Carrier shares its vehicle platform with the Chunmoo launcher, simplifying support across the system. Its cargo deck carries multiple launch pod containers, while an articulated hydraulic crane supports rapid launcher resupply in the field. With a cargo deck capacity of 4 pods, its max. payload is 10 tons. The crane can bear up to 2.5 tons and has a reach of 6 meters.



CHUNMOO MUNITIONS

The Chunmoo Multiple Rocket Launcher System supports a family of munitions for land, maritime, mobile-strike, and training applications. It offers precision targeting and Fire For Effect capabilities with a selection of state-of-the-art missiles tailored to the desired range.

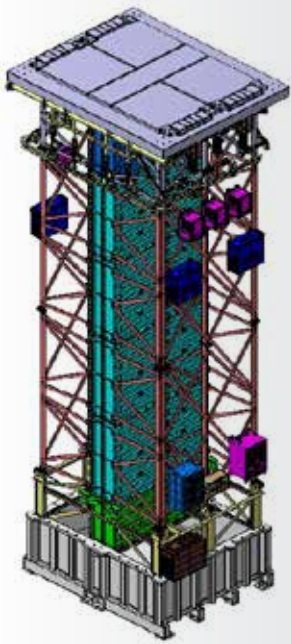
Current and developmental munitions include CGR80, CTM290, CTM-X, CTM-MR, ASBM-160, and L-PGW100, giving the system flexibility across a broad range of mission requirements.

KEY CAPABILITIES

- Short Ready-to-Fire sequence
- Interoperable with various C4I systems
- Ready to integrate rockets/missiles of NATO allies
- Training rockets available



INTEGRATED AIR & MISSILE DEFENSE



CONTAINERIZED KVLS-II VERTICAL LAUNCHING SYSTEM

KVLS-II builds on decades of Korean Navy VLS operational experience and production maturity across destroyers, frigates, landing ships, and export programs. Designed for affordability and operational flexibility, the containerized variant can support deployment to remote bases, islands, and austere locations with optional independent power.

MISSION CAPABILITIES

- Enables <35" missile cells for next-generation strike and missile defense
- Designed to withstand the high temperatures and extreme pressures generated by modern missile launches
- Supports ship-to-air, ship-to-surface, or ship-to-ship missiles from an individual launch cell
- Redundant architecture designed to maintain operation if one component fails

M-SAM LAUNCHER

The M-SAM launcher supports defense against enemy aircraft and ballistic missile threats, backed by operational deployment experience and a global export track record.

MISSION CAPABILITIES

- Mountable on or detachable from a host vehicle
- Rapid deployment and fixed-site operation
- Cold-launch technology protects the launcher from missile exhaust and launch plume
- Vertical launch capability
- Thrust-vector control for 360-degree engagement





Hanwha
Defense USA

SHIPBUILDING



NATIONAL SECURITY MULTI-MISSION VESSEL **MARITIME TRAINING AND NATIONAL RESPONSE**

The National Security Multi-Mission Vessel program is modernizing America's maritime training fleet with five purpose-built ships constructed at Hanwha Philly Shipyard for the Department of Transportation's Maritime Administration. Four of these ships have been delivered, with the fifth scheduled for delivery in mid-2027.

In addition to serving as training platforms, NSMVs are designed to support humanitarian aid, disaster relief, or military operations, and can be activated for national response missions in times of need. The program represents an investment in America's shipbuilding industry and defense readiness while enhancing sealift capacity for wartime logistics and emergency operations.

BULK FUEL VESSEL / MEDIUM RANGE TANKER **REPLENISHMENT ON THE GO**

Hanwha has developed a dual-use platform for a domestically produced, Jones Act tanker also suitable for military resupply and ship-to-ship replenishment (CONREP/CONSOL). Hanwha Philly Shipyard is constructing commercially outfitted vessels intended for Jones Act trade. Orders for military variants with CONSOL and Fuel Delivery System stations added for resupply operations would benefit from a hot production line and high degree of commonality with the commercial variant. The current design carries up to 350,000 barrels in six segregated tanks, giving operators considerable mission flexibility.





MISSILE RANGE INSTRUMENTATION VESSEL

TRACKING CAPABILITY AT SEA

In partnership with vessel construction manager TOTE Services, LLC, Hanwha is under contract to build two Missile Range Instrumentation Vessels for the Missile Defense Agency. The new vessels will use the proven NSMV hull and will be built at Hanwha Philly Shipyard.

The ships will replace the aging *Pacific Tracker* and *Pacific Collector*, which currently support Missile Defense Agency testing and monitoring activities in the INDOPACOM region. The MRIVs will enter service in the early 2030s.



AUTONOMOUS & UNMANNED SYSTEMS

H38 MEDIUM UNMANNED SURFACE VESSEL

The H38 MUSV is designed for enduring autonomous operations in contested waters, extending fleet reach, resilience, and lethality.

Its payload-agnostic ISO-container architecture enables rapid transition among mission configurations.

MISSION CAPABILITIES

- ISR
- Electronic warfare
- Communications relay
- ASW / ASuW
- Mid-range strike

Affordable, attritable, and ready for scale, H38 integrates across manned and unmanned platforms to distribute sensors, strike capacity, and real-time targeting data throughout the battlespace.

MOJAVE STOL

SHORT TAKEOFF AND LANDING UNMANNED AIRCRAFT

Developed by General Atomics, Mojave STOL combines operational reach with investments in open architecture, autonomy, and machine learning. The platform is the first UAS in its class to fly from aircraft carriers and is designed to support ground troops and armed reconnaissance missions in expeditionary environments.



MISSION CAPABILITIES

- Armed reconnaissance
- Counter-UAS
- Contested logistics
- Littoral maneuver
- Electronic warfare
- Advanced teaming with air-launched effects
- Signals intelligence
- Long-range strategic ISR
- Over-the-horizon targeting

Mojave delivers runway independence, with the ability to launch from locations ranging from warships to dirt fields. Its multi-mission versatility supports logistics in contested environments as well as attack and reconnaissance missions.

ARION-SMET UNMANNED GROUND VEHICLE

ARION-SMET is designed to enhance infantry survivability and combat performance by transporting heavy equipment or wounded personnel in high-intensity combat. The vehicle can also provide fire support through a mounted remote-controlled weapon station.

AUTONOMOUS CAPABILITIES

- Soldier and vehicle following
- Waypoint navigation
- Unpaved and open-field driving
- Obstacle avoidance
- Recovery following communications failure



UNMANNED SURVEILLANCE VEHICLE

The Unmanned Surveillance Vehicle is a medium-sized combat robot operated through a control station or portable remote-control unit. Its autonomous system supports vehicle following and homing, while a hybrid electric system provides extended operational range using both engine and battery power.

MISSION

Designed primarily for reconnaissance and surveillance, the vehicle can also engage enemy troops or soft-skinned vehicles when required.





ADVANCED MANUFACTURING

SMART-YARD OPERATIONS

Through Hanwha Philly Shipyard, Hanwha Ocean is transferring smart-yard technologies from Korea to the United States. At Hanwha Ocean's Geoje shipyard, robots increasingly perform hazardous work involving high heat, sparks, and confined spaces, while skilled workers move into supervisory roles managing robotic systems and overall quality.

ADVANCED TECHNOLOGIES

- Automation and robotics
- Drones and IoT sensors
- VR- and AI-assisted training
- Smart-yard control centers

OPERATIONAL BENEFITS

- Efficient knowledge transfer to the next generation of shipbuilders
- Remote monitoring of KPIs during sea trials
- Increased output and on-time deliveries
- Improved worker safety
- Opportunities to upskill the workforce

Hanwha Philly Shipyard became part of Hanwha in 2024 and is the first yard outside Korea to adopt technologies proven in Geoje. Its expansion plan includes additional dry docks, piers, block-production capacity, automation, and smart-yard systems designed to significantly increase annual output.

Enterprise resource planning and production-management systems are also being implemented, while welding robots proven in Geoje are beginning to be introduced in Philadelphia as part of the ongoing transfer of smart-yard technology.

HANWHA ADVANCED MANUFACTURING CAMPUS

In 2026, the U.S. Army awarded Hanwha Defense USA an enhanced use lease for an advanced manufacturing facility at Pine Bluff Arsenal, Arkansas.

The facility will incorporate the latest automation technology to support safer manufacturing, enhanced quality, and production at scale.

PLANNED PRODUCTION

- Nitrocellulose
- Modular artillery propelling charges
- Base bleed units
- Triple-based propellants

Together with other investments, the campus is intended to expand the U.S. manufacturing base for energetics and propellant systems and increase national readiness by addressing the need to rebuild munitions inventories.





HANWHA IN THE UNITED STATES

HANWHA CIMARRON

Based in Opelika, Alabama with operations in Huntsville, Hanwha Cimarron combines aerospace heritage with advanced composite overwrapped pressure vessel (COPV) technology for space and defense systems. The business provides solutions for space, aerospace, defense, marine, and cryogenic COPV applications.

CORE CAPABILITIES

- Composite overwrapped pressure vessels (COPV)
- Type 3 solutions for a range of needs
- Wide operating-temperature range

HANWHA AEROSPACE USA

Hanwha Aerospace USA manufactures complex rotating and precision-machined components for commercial and military aircraft engines. The company also provides engine prototyping, spare-part, and custom-tooling solutions to OEM and Tier 1 customers across four facilities in Connecticut.

CORE CAPABILITIES

- Precision rotating and static components for aerospace-engine applications
- Complex gages, fixtures, precision tools, and composite molds
- High-energy beam processes and fabrication
- Precision machine-tool spindles and grinding machines
- Grinding-process engineering

HANWHA PHILLY SHIPYARD

Hanwha Philly Shipyard operates a major shipbuilding facility on the Delaware River, benefiting from deepwater access and capable of constructing large and advanced commercial and government vessels.

The facility also includes fabrication shops, automated panel lines, and outfitting areas designed for high-efficiency modular construction.

Since 2000, the yard has delivered nearly half of all large, oceangoing U.S. Jones Act ships. Its portfolio includes container ships, product tankers, and Aframax tankers, while its location near major East Coast shipping routes supports vessel delivery and logistics.

HANWHA SHIPPING

Established in 2024, Hanwha Shipping is a ship-owning and maritime investment platform dedicated to owning and operating a diversified fleet of first-class vessels. The company supports the growth of strategic customers by providing reliable maritime capacity, enhancing global supply chain resilience, and advancing sustainability, efficiency, and decarbonization through the deployment of next-generation maritime technologies, while leveraging the strength and global reach of the Hanwha Group's network.

OUR FLEET

- Liquefied Natural Gas (LNG) Carriers
- Medium Range (MR) Product Tankers
- Very Large Crude Carriers (VLCCs)

GLOBAL FOOTPRINT

NORTH AMERICA



Primary Aerospace, Defense, and Shipbuilding Locations

Pine Bluff, AR

Hanwha Advanced Manufacturing Campus

Huntsville, AL

Hanwha Cimarron

Houston, TX

Hanwha Shipping

Connecticut, USA

Hanwha Aerospace USA (4 locations)

Philadelphia, PA

Hanwha Philly Shipyard

Arlington, VA

Hanwha Defense USA Headquarters

Opelika, AL

Hanwha Defense USA Integration & Test Facility

USD \$68.9B

TOTAL SALES

As of 2025

USD \$198B

TOTAL ASSETS

As of 2025

A world of capability.

Aerospace, defense, and shipbuilding expertise across a global network of manufacturing, business, and support locations.



Warsaw, Poland

Hanwha Aerospace Europe

Bucharest, Romania

Hanwha Aerospace Romania

Riyadh, Saudi Arabia

Hanwha Aerospace Middle East

Hanoi, Vietnam

Hanwha Aero Engines

Seoul, South Korea

Hanwha Aerospace Headquarters

Changwon, South Korea

Hanwha Aerospace

Geoje, South Korea

Hanwha Ocean

Melbourne, Australia

Hanwha Defense Australia

TOP 5

KOREAN BUSINESS ENTERPRISE

Total asset basis, 2026

74 YEARS

OF HISTORY

Founded in 1952



Hanwha

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