

GLOBAL LEADER PROVIDING TOTAL DEFENSE SOLUTIONS

Hanwha Defense is leading the global defense industry by providing total defense solutions through its deep expertise and cutting edge technology.

Hanwha Defense has built a world-class portfolio in the areas of artillery systems, armored vehicles, air defense systems and unmanned ground systems based on leading edge technology and broad experience. Against this backdrop, we're now reinforcing our position as a sustainably growing and globally competitive defense manufacturer. As a pioneer of the South Korean defense industry, we developed the K9, a self-propelled howitzer, for the Republic of Korea Armed Forces. We are also focused on the development of new, leading edge products, such as tactical unmanned ground vehicles and remote-controlled weapon stations, through continuous investments and R&D. The world's most advanced self-propelled howitzer, the K9 has been exported to several countries around the world. What's more, we have developed the export versions of the BIHO air defense system and the Tigon armored wheeled vehicle, which have global competitiveness in technological aspects, as we actively engage in overseas marketing. Looking ahead, Hanwha Defense will offer innovative and trusted defense solutions to take the lead in the global defense market.



HISTORY

1977-1999	2000-2014	2015-2020
1977 Established as a defense industry company	2001 Exported the K9 THUNDER to Turkey	2015 Mass produced the BIHO air defense system, and the MSAM launcher
1995 Mass produced the K77 fire direction center vehicle and the K200A1 armored personnel carrier	2004 Exported the BARRACUDA 4x4 armored wheeled vehicle to Indonesia	Exported the BARRACUDA 4x4 to Vietnam
1998 Mass produced the KAAV (Korea amphibious assault vehicle)	2008 Mass produced the K21 infantry fighting vehicle	2016 Exported the KAAV to the Philippines
1999 Mass produced the K9 THUNDER self-propelled howitzer and the CHUNMA surface-to-air missile	2013 Exported the Tarantula 6x6 armored wheeled vehicle to Indonesia	2017 Exported the K9 THUNDER to India, Finland and Norway
	2014 Exported the K9 THUNDER to Poland and the HAESUNG missile system launcher to Colombia	Exported the K10 fully automated robotic ammunition resupply vehicle to Norway
		2018 Exported the K9 THUNDER to Estonia
		2020 Mass produced AAGW, 120 mm self-propelled automatic mortar carrier



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GLOBAL LEADER OF TOTAL DEFENSE SOLUTIONS



WE WILL BE THE SUSTAINABLE ENERGY FOR YOUR FUTURE

Originating from industrial explosives, Hanwha's defense business has led the development of the Republic of Korea's defense industry for nearly half a century.

Founded in 1952, Hanwha has grown to become a Fortune Global 500 company. Combining business expertise and synergies in manufacturing & construction, finance and services & leisure, Hanwha has emerged as the 7th largest business enterprise in the Republic of Korea, responding to changing market conditions quickly and effectively. With well executed strategies and aggressive investments, we're focused on overcoming toughest challenges successfully in key sectors such as chemical, aerospace & mechatronics, solar energy, and finance. We're now building the foundation for sustainable development and a brighter future for all.



SUSTAINABLE GROWTH

USD61.96 _B	Top 7	Top 6
Total Sales (As of 2018)	Business Enterprise in the Republic of Korea (Total asset basis as of May 2019)	Business Enterprise in the Republic of Korea (Net income basis as of 2018)
351	76	67
Global Networks (As of 2018)	Domestic Affiliates (As of 2018)	Years of History (Founded in 1952)

ARTILLERY SYSTEMS

We've diversified our product range by upgrading and adding products to our artillery series to create a larger portfolio of weapons to bolster national security.



K9 THUNDER
SELF-PROPELLED HOWITZER

The K9 THUNDER, which has been exported overseas, features a high level of firepower capability with its long shooting range and rapid firing speed. We also mass produce the K9A1, a variant of the K9, with key improvements for operations at night, such as automatic fire control units, driver night vision periscope and auxiliary power units.

SPECIFICATION	
Effective Range of Fire	40 km
Maximum Rate of Fire	6~8 rounds per minute
Ammunition Capacity	48 rounds
Combat Weight	47 tons



K10
FULLY AUTOMATED ROBOTIC AMMUNITION RESUPPLY VEHICLE

The K10 ammunition resupply vehicle is the world's first robotic ammunition carrier, which supplies ammunition to the K9 Thunder self-propelled howitzer. It has been exported along with the K9.

SPECIFICATION	
Ammunition Capacity	Projectile 104 rounds Propellant 504 units
Transfer Rate	10 rounds per minute
Maximum Speed	67 km/h
Combat Weight	47 tons



K77
FIRE DIRECTION CENTER VEHICLE

The K77 fire direction center vehicle is an armored vehicle designed to command and operate artillery units and fire control. It maximizes artillery power by assigning fast and accurate shooting missions on the acquired targets.

SPECIFICATION	
Maximum Speed	56 km/h
NBC Protection	Positive pressurized system
Fire Command System	BTCS A1
Combat Weight	20 tons



EVO 105
EVOLVED WHEELED SELF-PROPELLED HOWITZER

The EVO 105 is a self-propelled 105 mm towed howitzer armed on a 5 ton truck. Equipped with an automatic fire control system and positioning system, it is a new type of weapon system that is designed to maximize operational efficiency.

SPECIFICATION	
Effective Range of Fire	11.3 km
Maximum Rate of Fire	10 rounds per minute
Ammunition Capacity	60 rounds
Combat Weight	18 tons

LAUNCHER SYSTEMS

We have a range of launcher systems, from land based to sea launched, with our unrivaled competitive edge in the field of launch systems that require sophisticated and comprehensive technology and experience.

**MSAM**
MEDIUM RANGE SURFACE-TO-AIR MISSILE LAUNCHER

The MSAM can be operated mounted on or off a ground transportation vehicle. The MSAM is a vertical launcher loaded with 8 rounds of medium range surface-to-air missiles that can be fired in rapid and continuous succession.



KVLS
KOREAN VERTICAL LAUNCHER SYSTEM

The KVLS can launch multiple guided missiles (anti submarine, anti air, and anti surface) vertically from a naval ship on which it is mounted. The system serves as the standard for vertical launch systems of the surface combatants operated by the Korean Navy.

ARMORED VEHICLES

We have a wide range of armored vehicles in our lineup, each designed to be extremely mobile and flexible in response to the future battlefield environment.



K21
INFANTRY FIGHTING VEHICLE

The K21 is a world-class infantry combat vehicle equipped with significantly enhanced firepower, survivability and maneuverability. The vehicle is also capable of performing rapid, three-dimensional movements in the digitalized battle environment of the future. With a 40 mm cannon, it can carry out safer troop transport and combat missions. The K21 is the only armored vehicle that can travel on water among equivalent models.

SPECIFICATION	
Crew	12 persons
Armament	40 mm cannon, 7.62 mm machine gun
Maximum Speed	70 km/h (land), 6 km/h (water)
Combat Weight	26 tons



K21 105
MEDIUM TANK

The K21 105 has a 105 mm turret mounted on the proven K21 chassis. It has strong firepower and maneuverability that enables the vehicle to conduct a wider variety of tactical operations than main battle tanks.

SPECIFICATION	
Armament	105 mm cannon, 7.62 mm coaxial machine gun
Maximum Speed	70 km/h
Cruising Range	450 km
Combat Weight	25 tons



REDBACK
INFANTRY FIGHTING VEHICLE

The Redback is designed to address combat capabilities required in the future battlefield environment. It's equipped with the world's best protection systems, which include configurable armor, laser warning and active protection devices, and enhanced sensors. With proven powertrain, innovative in arm suspension, and a rubber track, the Redback ensures superior battlefield mobility in its class.

SPECIFICATION	
Crew + Dismounts	9 (3+6) persons
Armament	30 mm cannon, 12.7 mm RCWS, 7.62 mm coaxial machine gun
Maximum Speed	65 km/h
Cruising Range	520 km



120 mm SELF-PROPELLED AUTOMATIC MORTAR CARRIER

By mounting the 120 mm self-propelled mortar onto the K200A1 armored personnel carrier, this weapon system improves the performance and range of firepower compared to a conventional mortar. Its automated fire control system guarantees more rapid and accurate firepower support.

SPECIFICATION	
Armament	120 mm self-propelled mortar, 12.7 mm machine gun
Maximum Speed	70 km/h (land), 6 km/h (water)
Effective Range of Fire	12 km
Combat Weight	14 tons

AIR DEFENSE SYSTEMS

Hanwha Defense's high-end technology, developed through hands-on experiences, plays a pivotal role in the Republic of Korea's advanced air defense systems.



BIHO
AIR DEFENSE SYSTEM

BIHO is a weapons system that combines a self-propelled anti air gun with a short-range anti air guided missile system. This weapons system maximizes the strength of the gun and missile systems, demonstrating a superior defense capability against aerial targets, including aircraft and helicopter, penetrating at low altitude.

SPECIFICATION	
Combat Weight	26.5 tons
Detection Range	21 km
Tracking Range	7 km
Fire Power	30 mm twin guns, missiles
Maximum Speed	60 km/h
Effective Range of Fire	Gun: 3 km, missile: 6 km
Maximum Rate of Fire	Gun: 2x600 rounds/min Missile: 45 sec/round



AAGW
ANTI-AIRCRAFT GUN WHEELED VEHICLE SYSTEM

The AAGW is the latest air defense system to defend the points of interest for allied forces, as well as protect friendly mobile troops from low altitude attacks by enemy aircraft. Using a wheeled vehicle platform, it is able to provide close in support to supported forces. The system is also capable of self targeting threats with the help of electron optical and visual targeting equipment.

SPECIFICATION	
Combat Weight	26.5 tons
Tracking Range	7 km
Maximum Speed	90 km/h
Armament	30 mm twin guns
Effective Range of Fire	3 km



BIHO II
NEXT GENERATION AIR DEFENSE SYSTEM

BIHO II is a next generation air defense system and a powerful solution against all aerial threats. Based on Hanwha Defense's high-end technology accrued from years of experience, high maneuverability and the excellent reaction time of the BIHO II not only improve the survivability for allied troops but enhance the air defense for major facilities.

SPECIFICATION	
Weight of Turret	5.5 tons (Excluded add on armor)
Crew	2 persons
Armament	30 mm, 40 mm cannon (ABM, NATO)
Effective Range of Fire	3~4 km
SAM	~25 km
Radar	3D AESA radar, C RAM radar

UNMANNED GROUND SYSTEMS

Hanwha Defense is dedicated to R&D for future battlefield environments. Combining our integrated system with field specific core technology, we deliver comprehensive modern combat systems enough to lead the fourth industrial revolution in the defense sector.

TACTICAL UNMANNED GROUND VEHICLE

A sophisticated and comprehensive manned/unmanned combat system for the future battlefield, the Tactical Unmanned Ground Vehicle is designed to minimize the potential loss of life and enhance effective operations.



UNMANNED GROUND COMBAT VEHICLE

This mid-to large-sized unmanned ground combat vehicle system can be used to remotely lead mechanized units across a variety of terrains including tactical roads, off roads, and unpaved roads. The vehicle is useful to search for enemy troops, reconnaissance, guide target firing, and engage in battle. It is also capable of maintaining vigilance on military camps and major facilities.



MULTI-PURPOSE UNMANNED GROUND VEHICLE

The multi-purpose UGV can conduct search and reconnaissance work with other unmanned vehicles, unmanned devices, and even control other unmanned units during intense battlefield situations. It has a weapon system to protect infantry, as well as a storage space for transporting heavy materials or a wounded person.



EODD ROBOT
EXPLOSIVE ORDNANCE DETECTION AND DISPOSAL

The EODD is a small unmanned robot system designed to explore passages and detect potential mine and improvised explosive devices. It can also be used for remote attacks, defensive operations, perform reconnaissance and surveillance in urban and mountainous terrains.



IED DISPOSAL ROBOT

An IED detection and disposal robot is portable and can be operated by a soldier. The robot consists of a mobile robot platform for off-roading, multi degree of freedom robotic arm and a terminal device.



SG ROBOT
SMART GRENADE

Equipped with tear gas or high explosives, the SG robot detects enemies or terrorists through surveillance and reconnaissance. The robot is also used to remotely operate explosion devices for precision strike mission.

ENERGY STORAGE SYSTEM

We have developed military grade lithium battery systems for submarines. It enables our Naval Force to use energy more efficiently, thereby increasing our military strength.

LITHIUM BATTERY SYSTEMS FOR SUBMARINES

As the next generation energy storage system, lithium ion battery can extend the underwater operational time of submarines by replacing conventional lead storage battery. The new system is expected to provide world-class stability and fast operational response.



TANKS AND ARMORED VEHICLES



LIGHTWEIGHT

This lightweight station can be mounted on a self propelled howitzer, armored vehicles and small tactical vehicles. The K3, K4 or K6 machine guns can be installed on the station itself. The surveillance and strike system can be remotely managed with the operation system located inside the vehicle.



MULTIPLE WEAPON COMBINATION

Mounted with the K4 or K6 armored surveillance and strike system, an amphibious assault vehicle can remotely control the system and smoke grenade launcher through its operation system. Targets are automatically tracked even during stops and maneuvers for accurate shooting.



NAVAL VESSELS

Equipped with the K6 armored surveillance and strike system on its exterior, this ship-based weapon station is remotely controlled from the steering room for automatic target tracking and shooting during maritime maneuvers.