THE INNOVATING PIONEER FOR A SUSTAINABLE TOMORROW

Hanwha Aerospace

Hanwha is embracing new challenges to secure a sustainable future for people and the planet

Established in 1952, Hanwha has grown as one of the major Korean companies and built its reputation as a global company steadily with its founding philosophy of "fostering social growth and prosperity" and the spirit of upholding "trust and loyalty." Those two mottos played a crucial role in the nation's growth and a better quality of life of the people. With decades of experiences and expertise in sectors such as aerospace, energy & materials, finance, and retails & services, we keep diversifying business portfolios and investing in innovation for sustainable growth.

Total sales	Global networks	Founded in 1952
As of 2024	As of end of 2024	
64.1B USD	821	73 years

The innovating pioneer for a sustainable tomorrow

With sustainable technologies and continuous efforts, Hanwha Aerospace is keep moving forward to protect the planet and create new values

TOTAL SOLUTIONS

A global total solution provider from aerospace to defense

LAND

No.1 defense company on the global stage with second-to-none competitiveness in product quality and next-generation technologies

Firepower·maneuvering·air defense·MUM-T
Guided missiles·ammunition·laser·navigation

SEA

No.1 global innovator of pio-neering new maritime energy ecosystems in a sustainable way based on advanced eco-ESS technology

Lithium-ion battery systems for submarines and ships (ESS), naval vessel engines, gas turbine generators

AIR

Expanding the value chain from components to systems with independent source technologies, and reinforcing the reputation in the global aviation industry

Gas turbine engines and components for aircraft, and indigenous engines developed for missiles and unmanned aerial vehicles (UAVs)

SPACE

A total solution provider in the space domain with innovative and cutting-edge technologies

Space transportation
Satellite (communication, observation)

SYNERGY

Hanwha Aerospace will expand business and create synergy in coordination with its affiliates – Hanwha Systems, Hanwha Ocean and Satrec Initiative.

Hanwha Ocean

A maritime and shipbuilding expert offering tailored and exclusive solutions

Hanwha Systems

A system expert offering tailored and exclusive smart technologies which are combined with cutting-edge defense electronics and future ICT innovation

SI

Korea's sole exporter of satellite systems with verified capabilities in satellite systems development

History & Milestone

Every step we took became history. With this historic path, Hanwha Aerospace will pioneer uncharted lands again with united effort and firm will

1952 – 2013

1952 Korea explosives co. (currently Hanwha Corporation) founded

1978 Designated as a defense company

1981 First manufacture of aircraft components

1984 First mass-production of K55 Thunder
Development of K200 APC

1986 Selected as a key contractor for KFP

1988 First mass-production of Kooryong, 130㎜ extended MRL

1990 Contract award for manufacturing GE F404 engines

1993 Export of K200 APC vehicles to Malaysia

1994 Delivery of the first localized F-16 Engine

1995 First mass-production of K77 FDCV, K200A1 APC

1998 First mass-production of KAAV

1999 First mass-production of K9 Thunder and SHORAD Chunma

2001 Export of K9 Thunder to Türkiye

2004 First mass-production of K30 Biho

2006 First mass-production of K10 ARV

2008 First mass-production of K21 IFV

2012 Initial-delivery of KUH (Surion) Engines

2014 – 2018

2014 Contract award for a long-term supply contract with US P&W for GTF engine parts

Export of K9 Thunder to Poland

First mass-production of K56 ARV

2015 Hanwha Techwin launched

Contract award for L-SAM (Long-range Surface-to-Air Missile)

Contract award for TAipers (LAH air-to-surface guided missile)

First mass-production of M-SAM launchers

First mass-production of Chunmoo MRLS

2016 Hanwha Defense launched

Contract award for manufacturing liquid rocket engines for Korean space launch vehicle

Contract award for manufacturing GE and Rolls-Royce engine parts

2017 Established Hanwha Land Systems

Established Hanwha Techwin Vietnam Corp.

Export of K9 Thunder to Finland, India, and Norway

Export of K10 ARV to Norway

2018 Company renaming:
Hanwha Techwin to Hanwha Aerospace

Hanwha Defense Co. Ltd. launched

Export of K9 Thunder to Estonia

Successful launch of Korean test launch vehicle Nuri

2019 – 2024

2019 Hanwha Aerospace USA launched
Formation of Hanwha Defence Australia

2020 First mass-production of 120㎜ SPMC and 30㎜ AAGW Chunho

2021 Export of K9 Thunder, K10 ARV to Australia

Contract award for KM3, Korean river crossing equipment

Stake acquisition of Satrec Initiative Co., Ltd.

2022 Export of K9 Thunder and Chunmoo MRLS to Poland

Export of K9 Thunder packages to Middle East countries

Export of M-SAM II to Middle East countries

Contract award for Nuri KSLV-II Upgrade project

Merged with Hanwha Defense

2023 Merged with Defense Business of Hanwha Corporation

Stake acquisition of Hanwha Ocean

Successful 3rd launch of Nuri KSLV-II

Sale of Redback IFV to Australia

Contract award for a supply contract with BAE Systems for MCS

2024 Selected as a contractor for next-generation launch vehicle project

Contract award for a supply contract for the first production batch of the KF-21 (Boramae) engine

Export of K9 Thunder to Romania

L-SAM development completed

Opening of the Hanwha Armoured vehicle Centre of Excellence (H-ACE) in Geelong, Australia.

For a brighter future for our world, we will realize ethical management and the value of sharing under our philosophy of "Go Far, Go Together"

Move towards a sustainable tomorrow

Hanwha ESG Visions

ENVIRONMENTAL

We take safety and health as No.1 priorities. Enhanced safety and health will ensure the growth of our society and the environmental protection

- Accomplish carbon neutrality by 2050 (Carbon Neutral 2050)
- Develop green technologies and solutions
- Develop more green products

SOCIAL

Our goal is to grow and prosper together with our stakeholders, including customers, employees, suppliers and local communities

- Embrace the safety-first culture
- Improve customer satisfaction and communication
- Pursue co-prosperity and shared growth with suppliers
- Engage in social activities and contribute to local communities

GOVERNANCE

We pursue corporate integrity by building a corporate culture which enhances sound governance, law-abiding attitude, and ethical management

- Ensure sound governance
- Enhance board independency and diversity
- Build a transparent corporate culture
- Do proactive risk management and actions

Scan here to view
Hanwha Aerospace sustainability report

Global Capabilities

We will take another leap forward as a global market leader with superior technology and reliable quality in products

Having successfully exported K200 APC to Malaysia in 1993, Hanwha became the first Korean company to succeed in large-scale defense exports. Since then, we have been continuing to expand our global presence by exporting the K9 Thunder and K10 ARV to other customers, raising the international profile of Korea's defense industrial capability.

In 2022, we signed a contract with Poland over the supply of the K9 Thunder and Chunmoo MRLS. In 2023, we signed a contract with Australia over the local production of the Redback IFV.

OCEANIA

Australia
- K9 Thunder 2021
- K10 ARV 2021
- Redback IFV 2023

THE AMERICAS

USA
- F100 engine assembly 1998
- F404 engine assembly 2008
- GTF RSP with P&W 2014

Colombia
- Haeseong (Sea-Star) 2013

MIDDLE EAST & AFRICA

Middle East
- F404 engine assembly 2014
- T/FA-50 components 2014
- Chunmoo MRLS 2018, 2022
- M-SAM 2022, 2024

Egypt
- K9 Thunder 2022
- K10 ARV 2022
- K11 FDCV 2022

Senegal
- F404 engine assembly 2022
- T/FA-50 components 2022

ASIA

Malaysia
- K200 APC 1993
- F404 engine assembly 2022
- T/FA-50 components 2022

Indonesia
- Barracuda APC 2001
- Tarantula APC 2009
- F404 engine assembly 2022
- T/FA-50 components 2022

Vietnam
- Barracuda APC 2015

The Philippines
- KAAV 2016

India
- K9 Thunder 2017

EUROPE

Türkiye
- K9 Thunder 2001

UK
- Trent 900 engine parts 2005
- MCS 2023

Germany
- Engine parts (MTU) 2005

Poland
- K9 Thunder 2014, 2022
- Chunmoo MRLS 2022
- F404 engine assembly 2022
- T/FA-50 components 2022

Norway
- K9 Thunder 2017
- K10 ARV 2017

Estonia
- K9 Thunder 2018

Finland
- K9 Thunder 2017

Romania
- K9 Thunder 2024
- MCS 2024

VISION

The innovating pioneer for a sustainable tomorrow

Hanwha is leading the future and creating sustainable values as a No.1 global innovator of future technologies

Total defense solutions

We defend peace and freedom with unrivaled defense capabilities

With our hyper-connected command and control systems, we offer an integrated defense solution in all domains of land, sea, air and space.

- Ground platforms (K9 Thunder fire support, Redback maneuverability, Arion-SMET, MUM-T systems, etc.)
- Airborne platforms (UAV, unmanned helicopters)
- Maritime platforms (KSS Jangbogo-III Batch-II, USV, UUV, naval ship engines)
- Precision guided munition (Chunmoo MRLS, TAipers, KTSSM, L-SAM and more)
- Command, control and surveillance (low-orbit satellites, 5G tactical communications, mobile C&C)

New mobility paradigm driver

We lead the new mobility market with green technologies

We show a new paradigm to the new mobility market with green powertrains and ESS solutions.

- Electric propulsion systems for aviation (Electric engine, ESS, Electro mechanical actuator, Hydrogen fuel cell)
- Electric propulsion systems for ships·submarines (Energy storage system, Hydrogen fuel cell)
- Eco-friendly smart ships (decarbonizing shipping, etc.)

Aerospace global leader

We are leading innovations in the aerospace industry with future technologies

We are expanding the value chain from components to systems through our own engine technologies and pioneering a new horizon in the aerospace area through Nuri KSLV-II upgrade and next-generation launch vehicle projects.

- Aeroengines (advanced engines for manned·unmanned fighters, engines for unmanned aircraft), unmanned aerial vehicles, engine lease
- Space Transportation Services (KSLV-II (Nuri), Next-generation launch vehicles, OTV, etc.)
- Satellites (Space Eye-T, observation satellites, communication satellites, navigation satellites)
- Space Exploration (Space resource mining and utilization, lunar exploration spacecraft, etc.)

We are leading the global defense market with cutting-edge technologies and competitiveness

Firepower systems

Hanwha offers firepower solutions offering lethality, maneuverability and survivability best in class.

K77 FDCV

Command and control is the main mission of K77 to enable the artillery to conduct quick and accurate firing.

K9A1 Thunder

Its top-notch performances, including long-range and high-cyclic firing, and swift displacement, are unparalleled.

K10 ARV

The world's first robotic ammunition carrier which delivers ammunition for K9 Thunder. Usually, K10 ARV goes together with Thunder when it is exported.

K9A1 Thunder ammunition system

The system offers solutions to optimize the performance of the K9A1 Thunder, including highly interchangeable and versatile modular charge system, along with trajectory correction fuze technology that significantly enhances projectile accuracy.

Modular Charge System (MCS) | Fuze | Precision guided projectile | Trajectory correction fuze

120㎜ SPMC

SPMC features a fire control system, rapid and precise fire support, and maximized survivability.

Chunmoo MRLS

Chunmoo, which is ROK Army's core asset, is capable of real-time precision missile strikes on the origin of attack and key targets beyond the range of enemy's long-range artillery.

Chunmoo MRLS guided missiles

We have missiles capable of precision strikes based on ranges(short·mid·long) and purposes (tactical·training), which can be used on the same launcher.

Air defense systems

By applying evolving technologies, Hanwha provides superior air defense systems to protect air territory against different types of aerial threats.

K30 Biho

Biho is a hybrid anti-air weapon system deployed for armored and mechanized military units to counter low-flying air targets.

30㎜ AAGW Chunho

Chunho is an anti-air weapon system designed to counter low-altitude surprise air attacks. Its main purpose is to support the close-in air defense of ROK Army and Marine Corps and ROK Airforce's base defense.

SHORAD Chunma

Korea's first short-range air defense system against low-altitude air threats.

H-SHORAD

Short-range anti-aircraft defense system to respond various aerial threats such as drones and UAVs with its own detection·tracking systems and a range of armament systems.

M-SAM

Middle-range Surface-to-Air Missile System is loaded with eight missiles, capable of rapid deployment and quick response. Integrated as the part of the Korea's Air Missile Defense System to protect lower-tier altitude against airbreathing targets.

L-SAM

Long-range Surface-to-Air Missile System is developed with original domestic technology, against ballistic missile and high-level threats. It serves as the key asset of Korea's Multi-layered Air Defense System, protecting upper-tier altitude.

L-SAM ABM

As part of the Korean Anti-Missile Defense (KAMD) concept, L-SAM ABM's job is an upper-layer defense.
It "protects the nation at the highest point."

Armored vehicles

With a lineup of world-class armored vehicles featuring superior lethality and maneuverability, Hanwha offers sophisticated capabilities best suitable for combat and troop-carrying missions.

KM3

An amphibious vehicle designed to operate on both land and water. It will be a key to crucial maneuvering support for future ground operations.

Redback IFV

The Redback Infantry Fighting Vehicle is the most modern platform of its type in the world, with Australia as the launch customer.

TAipers

TAipers is an advanced tactical anti-tank guided missile, designed as a multi-platform countermeasure weapon system. The missile is compatible to a number of platforms from airborne ones like helicopters to ground ones (surface-to-surface) like Redback and UCV-L.

Tigon APC Series (8x8)

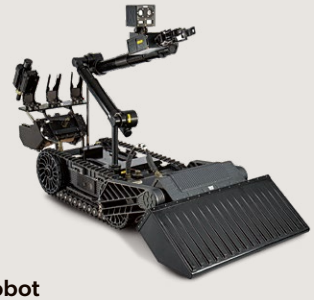
A high-performance wheeled armored vehicle featuring excellent maneuverability and additional armor.
A variety of weapon systems are installed, which enables operators to operate the car depending on their purpose.

K21 IFV

This flagship infantry fighting vehicle serves as the Backbone of ROK Army's Mechanized Unit.

MUM-T

With AI-based futuristic technologies, Hanwha develops unmanned and robotic systems responding to fast-changing battlefield environments.



EOD Robot

EOD Robot has superior remote surveillance and reconnaissance capabilities in urban and mountainous areas to detect, and neutralize landmines and IED threats.

Arion-SMET

Arion-SMET can do a variety of missions remotely, including search and reconnaissance. It helps enhance combat effectiveness and reduce personnel loss.

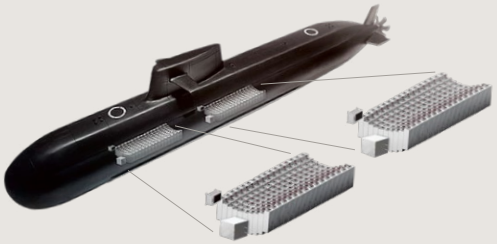
UCV-L

The main missions of UCV-L are search, reconnaissance, sur-veillance, and engagement in tactical roads, fields, and unpaved roads. It is operable both remotely and autonomously.

We keep working on decarbonization through innovative ESS packing and safety technologies to accomplish our ultimate goal of making green ships and sustainable value chains

ESS (Energy Storage System)

Drawing upon our plentiful experiences and proficiency in delivering lithium battery systems for submarines and optimized eco ESS for commercial ships, we are gaining reputation in the global ship market as an eco-ship builder in coordination with Hanwha Ocean in ship building (commercial·special naval) and offshore-plant programs.



ESS for submarines

We are the exclusive supplier of ROK submarines' lithium-ion battery systems to which global safety design standards apply.

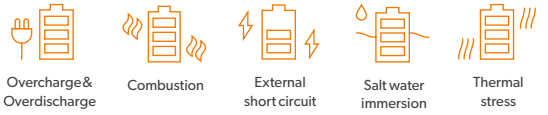
ESS for ships

Leveraging our expertise in lithium battery system technology developed for military submarines, we are enhancing our collaborative efforts with Hanwha Ocean to extend synergies in the realm of eco-friendly ships.

World-class safety design

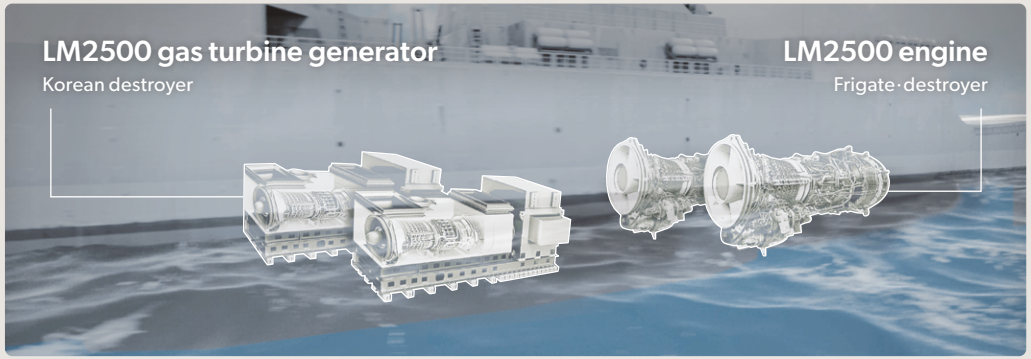
From the unit cell to the lithium battery system, we reflect multiple safety measures in the design from stage-based condition check to responses to failure, ensuring safety even in extreme conditions, such as underwater environments.

Fully tested under extreme conditions in performance verification tests (safety·reliability)



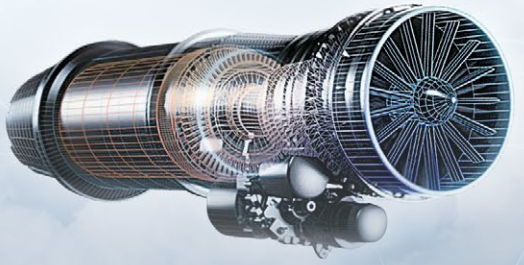
Gas turbines & Generators for naval ships

We offer high-reliable and effective gas turbine engines (LM2500), which are the main engines for ROK key surface ships, and power generators (AG9140RF), enhancing naval capabilities.



As the only specialized manufacturer of aircraft gas turbine engines in South Korea, we are committed to contributing to national security and the advancement of future high-tech industries by successfully developing cutting-edge aircraft engines and securing capabilities in unmanned aerial vehicle (UAV) systems

KF-21 Block 3



UCAV
Unmanned Combat
Aerial Vehicle

6th generation Fighters

Engine OEM

As a comprehensive aircraft engine system integrator, we possess core technologies and capabilities across the full spectrum of development — including design, materials, manufacturing, testing, certification, and IPS. Leveraging over 30 years of aircraft engine development expertise, we will continue to develop next-generation engines for both manned and unmanned platforms.

Manned Fighter Aircraft

Unmanned Reconnaissance & Combat Aircraft

Unmanned Wingman Aircraft / CCA

Unmanned Carrier

Unmanned Aerial Systems Business

We aim to lead the global UAV market by entering the unmanned aerial systems sector, a 'game changer' on the future battlefield.

Unmanned Aerial Systems

Unmanned
Reconnaissance Aircraft

Autonomous Drone Swarms

Pioneering uncharted ways to expand space territory with firm will for space exploration, we will open a new and sustainable tomorrow

Space launch vehicle

Starting with our first involvement in KSR–III Project in 1999, Hanwha Aerospace has been a close partner with ROK government in space development, culminating in its successful third launch of the indigenous rocket Nuri in 2023. However, this is not the end of our work. We will keep pushing the boundaries of our space capabilities from space transportation and exploration to satellite services.

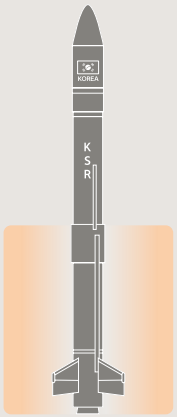
1999 – 2002

Korean Sounding Rocket KSR–III

We developed a gimbal engine driving unit for KSR–III, the first liquid-fueled rocket.

Height 14 m
Diameter 1.0 m
Weight 6 t

Gimbal engine driving unit



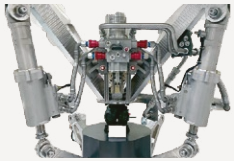
2003 – 2013

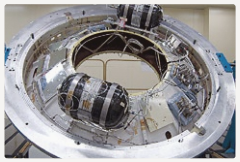
Naro KSLV–I

We participated in a project for propulsion system development for our legacy space vehicle Naro, the precursor to the Nuri and the foundation for KSLV projects.

Height 33 m
Diameter 2.9 m
Weight 140 t
Stages 2

Control system





Kick motor

2010 – 2027

Nuri KSLV–II

Having served as the supplier of key components for Korea's Nuri rocket — the world's seventh independently developed launch vehicle — Hanwha was awarded the contract for the Nuri upgrade project and is in the process of system integration technology transfer.

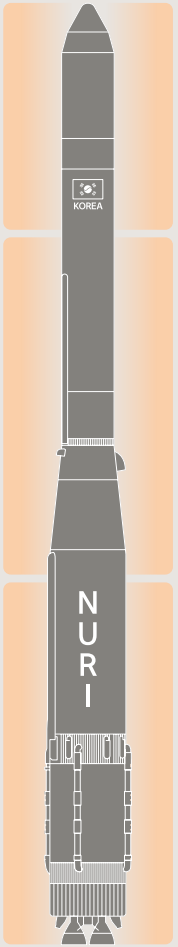
Height 47.2 m
Diameter 3.5 m
Weight 200 t
Stages 3

Launch vehicle system integration

- Comprehensive manufacturing management
- Stage assembly, final assembly, and testing supervision
- Nuri rocket launch operations

Production of core components for stages 1, 2, and 3

- Propulsion supply system
- Engine assembly
- Turbopump
- Engine system valves
- Attitude control system



2024 – 2032

Next-generation launch vehicle KSLV–III

Hanwha is collaborating with government agencies as the system integrator for the KSLV–III next-generation launch vehicle program, which may be deployed for the launch of medium to large satellites and lunar probes.

Joint development and operation of launch vehicle systems

- Launch vehicle operation and requirements analysis
- Launch vehicle mission design
- Design and production of components
- High-precision launch vehicle assembly
- Quality assurance and testing evaluation
- Launch system operations

Hanwha Aerospace

SPACE VALUE CHAIN

Satellite services

Developing and operating earth observation, satellite communications and satellites bodies

Navigation | Observation | Communication

Space transportation services

Launch Services and Space Transport Vehicles

Space exploration

Lunar Exploration and Space Resource Mining and Utilization

Space gas station for satellites

Communication satellites

Navigation satellites

Observation satellites

Space station

Space transportation shuttle

Space launch vehicles

Exploration satellites

Lunar and asteroid exploration

Hanwha offers comprehensive MRO Solutions for efficient equipment operation, leveraging decades of experience and unparalleled expertise in the MRO field

| Providing a total package of MRO solutions for optimal combat readiness

MRO (Maintenance, Repair and Overhaul)
Post-delivery integrated logistical support, including maintenance training, technical support, spare parts supply, and performance upgrades

Total MRO Solutions

Performance upgrades and maintenance
Achievement of continuous operational improvement through the enhancement and maintenance of equipment performance according to customer requirements

Overhaul
Extension of equipment life cycles through complete disassembly, maintenance, and restoration

Spare parts assessment and supply
Evaluation and supply of spare parts necessary for military equipment repairs

FSR
Field Service Representative
Provision of on-site technical support, preventive maintenance, and training services through the deployment of local technical personnel

PBL
Performance Based Logistics
Logistics support services based on performance metrics set by the military to ensure stable operation rates of military supplies

LAND


K9


K10


K21


K77


K55A1


Redback IFV

AIR


F100 engine


F404 engine


T700·701K engine

SEA


Marine gas turbine engines

Locations

DOMESTIC

Seoul
Headquarters
Hanwha building,
86 Cheonggyecheon-ro,
Jung-gu, Seoul

Daejeon
Business establishment
99, Oesam-ro 8beon-gil,
Yuseong-gu, Daejeon

Boeun
Business establishment
857, Hoeinnaebuk-ro,
Naebuk-myeon, Boeun-gun,
Chungcheongbuk-do

Asan
Business establishment
144 Asanvalleynam-ro
Dunpo-myeon, Asan-si,
Chungcheongnam-do

Yangju
CS Center
108 Kkumnamu-ro,
Baekseok-eup, Yangju-si,
Gyeonggi-do

Yeosu
Business establishment
411, Sinwol-ro, Yeosu-si,
Jeollanam-do

Changwon
Business establishment 1
Business establishment in Korea
1204 Changwon-daero,
Seongsan-gu, Changwon-si,
Gyeongsangnam-do

Changwon
Business establishment 2
799 Changwon-daero,
Seongsan-gu, Changwon-si,
Gyeongsangnam-do

Changwon
Business establishment 3
69 Gongdan-ro,
Seongsan-gu, Changwon-si,
Gyeongsangnam-do

R&D CAMPUS

Daejeon
R&D campus
10, Yuseong-daero
1366beon-gil, Yuseong-gu,
Daejeon

Changwon
R&D campus
69 Gongdan-ro,
Seongsan-gu, Changwon-si,
Gyeongsangnam-do

Pangyo
R&D campus
6, Pangyo-ro 319beon-gil,
Bundang-gu, Seongnam-si,
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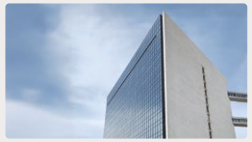

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