

HYOSUNG

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ECF
ELEMENTAL
CHLORINE FREE

This eco-friendly paper is made from pulp bleached by chlorinated compounds like ClO₂ rather than elemental chlorine, so less dioxin is generated to reduce environmental impact.

30%
RECYCLED
MATERIAL

This eco-friendly paper contains 30% regenerated pulp made from recycled paper.

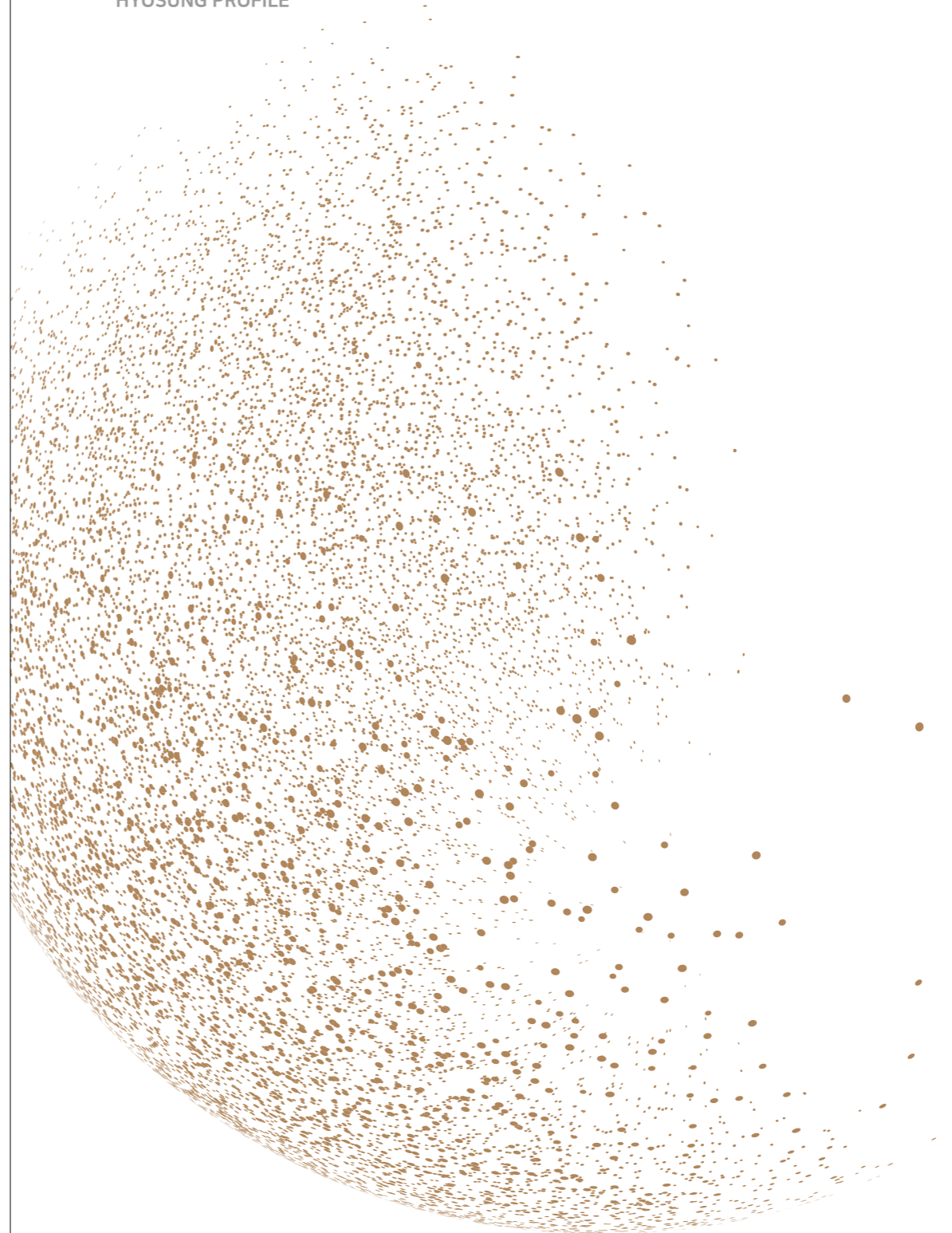
2022 ~ 2023

CREATIVITY
INSPIRED
HYOSUNG PROFILE

HYOSUNG

HYOSUNG PROFILE

English



CREATIVITY
INSPIRED

HYOSUNG PROFILE

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HYOSUNG's (FOCUS)

Hyosung is focused on the development of innovative materials, parts and equipment.

From safer and more powerful vehicles to the production and supply of environmentally friendly and stable electricity and functional clothes, the technology that leads to better lives for customers are not possible without the innovation of materials, parts and equipment.

The process of developing innovative materials, parts and equipment is a tough road involving ceaseless challenge without the fear of failure as technologies in various fields must be combined at the highest level.

Although this is not the path for everyone, it is like a task that someone must complete successfully.

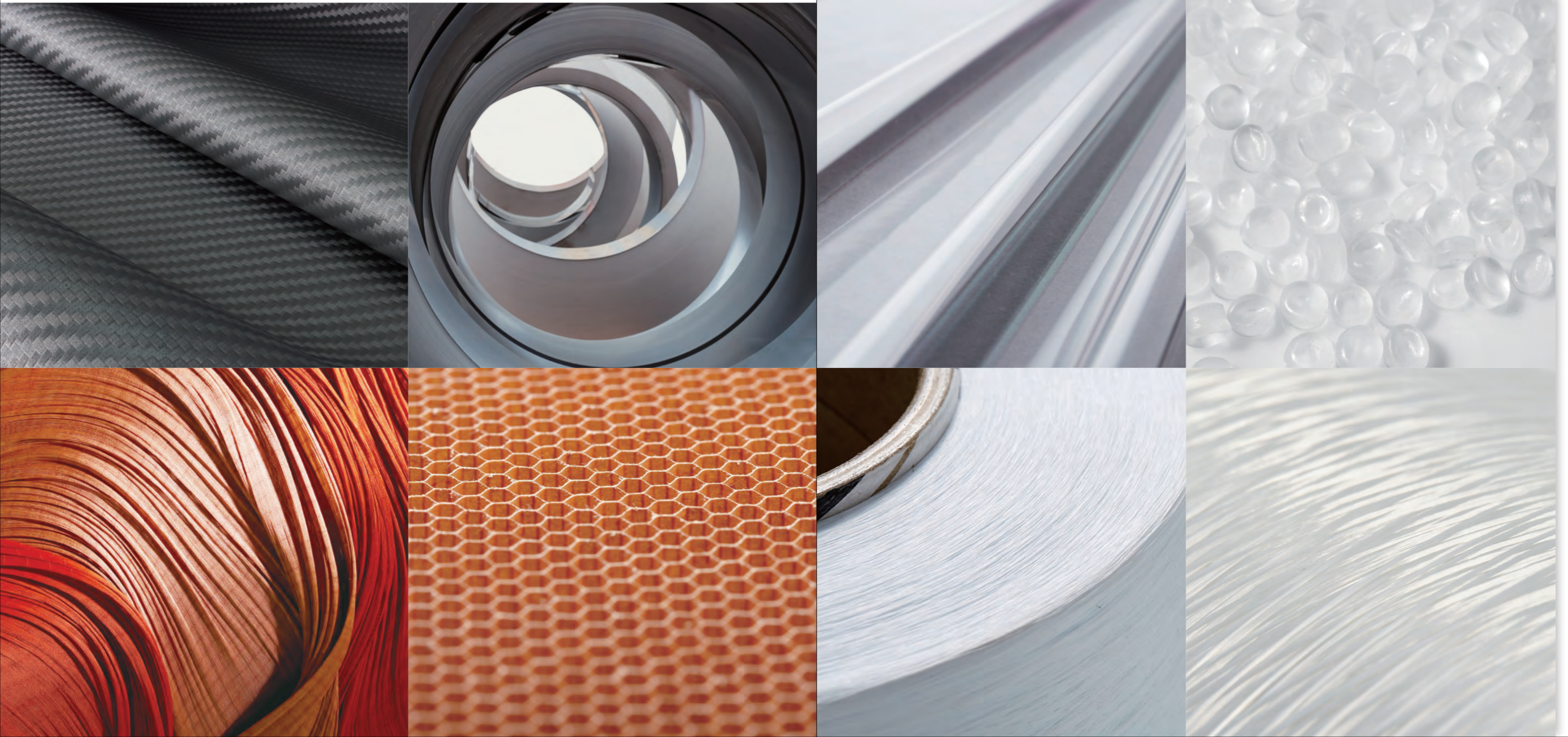
This is why we concentrate on materials, parts and equipment.

HYOSUNG

GLOBAL TECHNOLOGY LEADING NEW CHANGES

New challenges bring future changes

As the first Korean company to establish a corporate affiliated research institute, Hyosung has been dedicating itself to writing a new history of numerous first technological developments. Based on this, Hyosung has created a new lifestyle culture throughout the world in textiles, advanced materials, chemicals, heavy industry and information and communication.

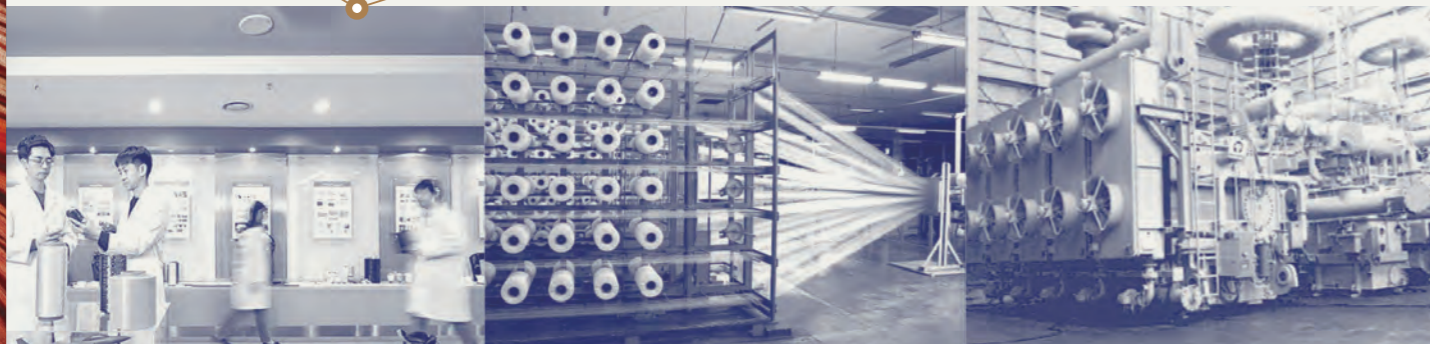


GLOBAL TECHNOLOGY LEADING NEW CHANGES

HISTORY OF 'THE FIRST'

The history of Hyosung, a leader in key industries of Korea as well as the world for the past 50 years, is the history of technological breakthroughs achieved through an indomitable spirit overcoming countless ordeals and difficulties.

- 1971** Establishment of Korea's first corporate affiliated research institute
- 1978** Development of Korea's first PET Tire Cords
- 1998** Development of the world's first 800kV GIS



New challenges bring future changes

As the first Korean company to establish a corporate affiliated research institute, Hyosung has been dedicating itself to writing a new history of numerous first technological developments. Based on this, Hyosung has created a new lifestyle culture throughout the world in textiles, advanced materials, chemicals, heavy industry and information and communication.

History of New Challenges and Advancements

- 2003** Obtainment of Korea's first ATM Quality Certification for the US financial industry
- 2008** Development of the world's first high-performance fishing nets from recycled fishing nets waste
- 2011** Development of the world's first yarn produced from recycled fishing nets waste
- 2013** Development of Korea's first high-performance carbon fiber
- 2019** Commercialization of the world's first polyketone Technology Center



GLOBAL TECHNOLOGY LEADING NEW CHANGES

GLOBAL TECHNOLOGY

With its global production system of core products spreading across over 114 locations in more than 29 countries around the world, Hyosung continues to provide differentiated products and services to satisfy the demands of customers.



TEXTILE



No. 1 Brand in Global Spandex Market, creora®
Hyosung TNC



ENERGY



World's Top Tier Product, GIS (Gas Insulated Switchgear)
Hyosung Heavy Industries



TIRE CORD



Polyester Tire Cords Used in 50% of Cars Around the World
Hyosung Advanced Materials

New challenges bring future changes

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Technology Leading Future Changes



INDUSTRIAL FIBER



Global No. 1 in Seatbelt Yarn and Airbag Textiles
Hyosung Advanced Materials



NEW MATERIALS



World's First Commercialized Polyketone Material, POKETONE™
Hyosung Chemical



ATM



No.1 in the United States and Russian, Nigerian ATM markets
Hyosung TNS

GLOBAL TECHNOLOGY LEADING NEW CHANGES

MANAGEMENT SYSTEM

Hyosung has completed its conversion into a holding company system, and restructured its departments into the affiliated companies of Hyosung TNC, Hyosung Heavy Industries, Hyosung Advanced Materials and Hyosung Chemical, which are overseen by Hyosung Corporation. The new system will increase management transparency and reinforce business expertise.



New challenges bring future changes

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(INNOVATIVE MATERIALS)

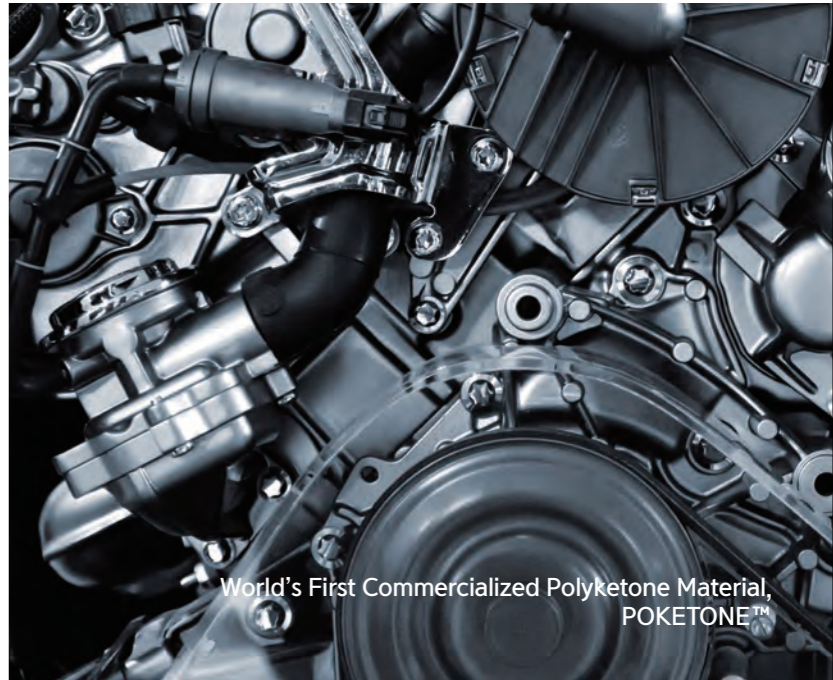
(FOCUS) on the Automotive Materials

A new possibility for automobiles can be imagined through the development of optimal advanced materials that are lighter, stronger, and safer.

Polyester Tire Cords
Used in 50% of Cars Around the World



Global No. 1 in Seatbelt Yarn



World's First Commercialized Polyketone Material, POKETONE™



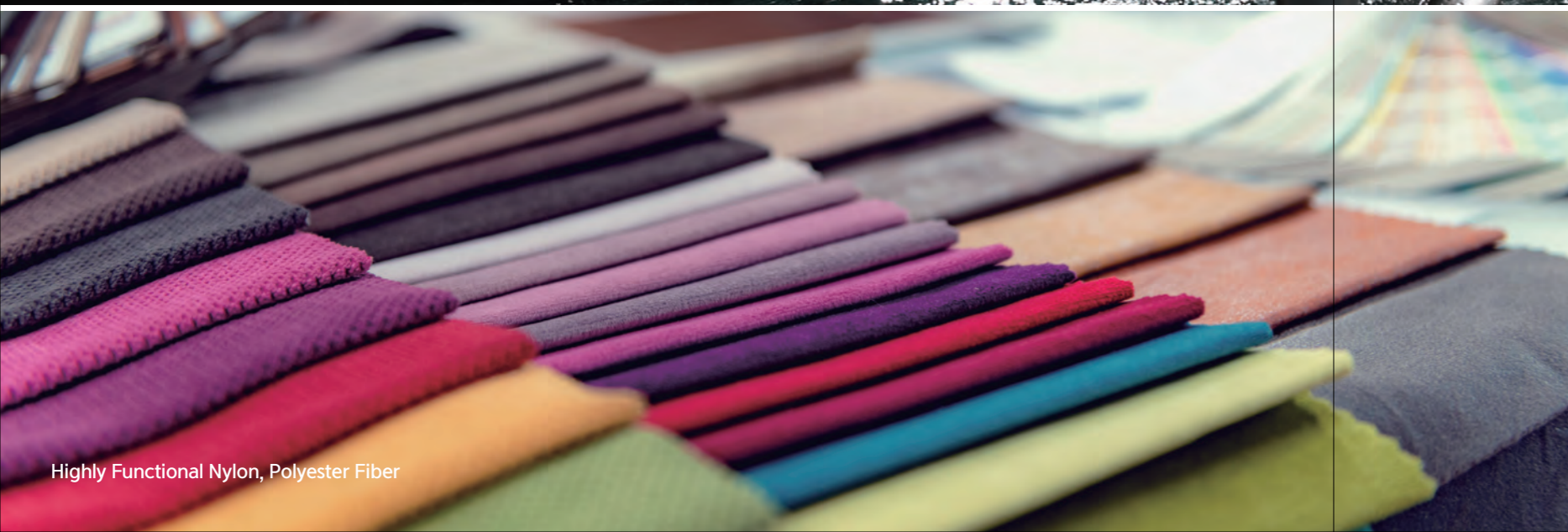
A Dream Fiber Stronger Than Steel The Carbon Fiber, Tansome

(GLOBAL
TEXTILE)

(FOCUS) on the
Functional Textile

Hyosung is growing into a leading global company
in the fiber material industry based on spandex,
its number one global product.

No. 1
Brand in Global
Spandex Market,
creora®



Highly Functional Nylon, Polyester Fiber



The World's First Recycled Yarn, regen®

(FOCUS) on the Future Energy

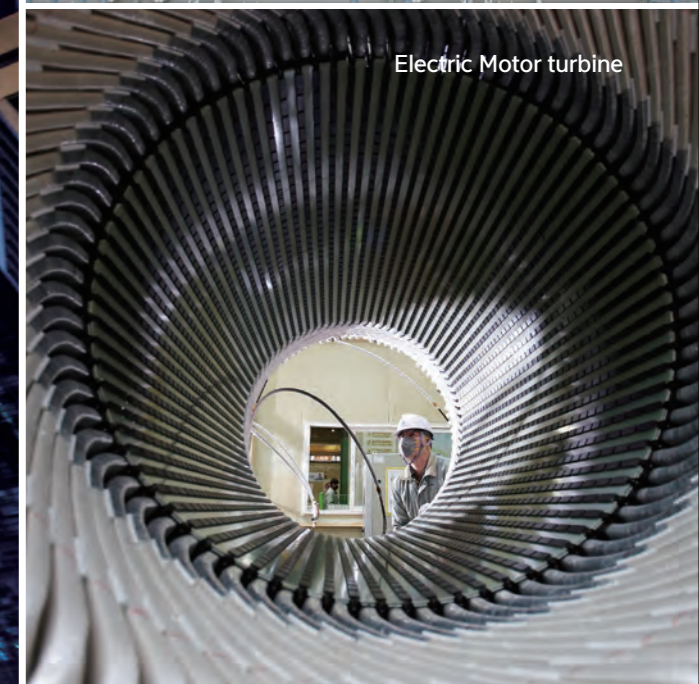
Hyosung is opening up an era of low-carbon green living with a future power grid system that reduces pollution and makes energy sustainable.

Kuala Lumpur
Twin Tower
Electric Power
Facilities

(ENERGY
NETWORKS)



Transformer, Circuit Breaker



Electric Motor turbine



Wind Power Generator



With Customers, With the World Hyosung is your trusted partner

With its excellent technologies and services, Hyosung is growing as a global leader in different business sectors such as textile, advanced materials, chemicals, power & industrial systems, construction, trading, and information & communication. Guided by our management philosophy of 'Global Excellence', we endeavor to provide better values for our customers all over the world. We will continue challenging ourselves and innovating while winning and maintaining customer loyalty and trust.

BUSINESS AREAS

- Textile / Trading
- Power & Industrial Systems / Construction
- Advanced Materials
- Chemicals
- Information & Communication
- Other Affiliated Companies

TEXTILE / TRADING

• Hyosung TNC Corporation



GLOBAL PRODUCTION LINE

By establishing and expanding spandex production lines in Turkey, China, Vietnam, Brazil, and India, Hyosung is becoming more responsive to customer demand as well as enhancing product quality and production reliability.



ECO-FRIENDLY CERTIFICATE

Hyosung acquired GRS from Control Union (Netherland) for its eco-friendly yarn that will help save energy cost, and consume less petrochemical raw materials.



GLOBAL TRADING SERVICE

The mutual benefits of exporting and importing partners are maximized by diversifying the trade structure that explores new markets such as Central and South America, Africa, and the Commonwealth of Independent States (CIS), and promoting three-party exchanges.

Hyosung TNC Corporation

Spandex PU
Nylon Polyester Fiber PU
Fabric Dyeing PU

Steel & Metal Products PU I, II
Chemical Products PU
LED Business Division
Sebitseom Business Division

Maximizing customer value with innovative textile technologies and global trade networks

Hyosung TNC's textile business division supplies yarns and fabrics such as spandex, nylon, and polyester, as well as dyed products, and is globally competitive in terms of technology, quality, and customer service. The trade business division provides the best marketing services in various fields, including distribution and logistics, with a focus on the steel and chemical fields. It has a network of more than 50 overseas branches around the globe, and is growing sustainably at the center of world trade by exploring new products and new markets.



Spandex PU

creora[®], the world's no. 1 spandex brand with the largest market share, has been selected as a world-leading product by the Korean Government.

Hyosung TNC has grown into the world's largest spandex manufacturer based on its unique production technology, R&D and global marketing activities. creora[®], which has the largest market share in the global spandex market, is opening a new horizon in the textile industry by constantly developing new products of the highest quality that meet the needs of customers.

Spandex PU provides one-on-one custom consulting services, and is building a production network for each continent to supply products quickly and reliably. Also we strives to develop and supply innovative products. In particular, creora[®] is accelerating the development of eco-friendly textile materials by developing a 100% recycled spandex, creora[®]regen, which has received GRS certification from the Control Union in the Netherlands. The reasons that global traders steadily choose creora[®] are "innovation" and "differentiation," the two keys behind creora[®]'s no. 1 market share in the world.

creora[®]

- creora[®] Color+
- creora[®] Black
- creora[®] Power Fit
- creora[®] highclo™
- creora[®] eco-soft
- creora[®] STEAMSET+
- creora[®] Soft Fit
- creora[®] LUMINOUS
- creora[®] comfort
- creora[®] Fit²
- creora[®] Fresh
- creora[®] ActiFit
- creora[®] 3D Max
- creora[®] EasyFlex
- creora[®] regen

Nylon Polyester Fiber PU

Hyosung TNC, a global chemical fiber manufacturer, is loved by customers around the world for its continuous development and supply of nylon and polyester yarns of excellent quality and with various functions.

Nylon Fiber Business Division

Korea's no. 1 nylon yarn / World's first microfiber development

The nylon fiber business division, the market leader in Korea, produces a wide variety of high-performance yarns used in high-end lingerie, outdoor sportswear, and yarns for industrial materials. The nylon fiber business division also focuses on the development of advanced materials, such as the world's first microfiber. As an example, by developing MIPAN regen, a recycled nylon for clothing, the nylon fiber business division achieved various environmental-friendly effects such as a reduction in the consumption of petrochemical materials and the preservation of natural resources, and was able to obtain the Global Recycled Standard (GRS) certification from Control Union in the Netherlands.

- MIPAN regen[®]
- MIPAN fine & soft
- MIPAN robic
- MIPAN robic-air
- MIPAN aqua-X
- MIPAN fit
- MIPAN rexy
- MIPAN glurex

Fabric Dyeing PU

Polyester Fiber Business Division

Developed regen[®], the first yarn made from recycled PET bottles in Korea m2, aerocool, askin, etc., were selected as world-class products.

With high functional products and excellent technology, the polyester fiber business division develops and supplies various new materials necessary for product development through constant R&D. The representative product is the microfiber m2, which has been listed as one a world-class product by the Korean government. In addition, the polyester fiber division is contributing to the creation of greater value for customers by steadily introducing various and differentiated products.

In particular, the polyester fiber division accelerated the development of eco-friendly textile materials and launched the first recycled polyester yarn in Korea, regen[®], which is made from recycled PET bottles. It is now leading the eco-friendly textile market with the launch of regen[®] Jeju and regen[®] Seoul, recycled polyester yarns made from recycled PET bottles in Jeju Island and Seoul. The polyester fiber business division recently launched regen ocean, a recycled polyester yarn made from waste PET bottles collected from the sea, and acquired the first Ocean Bound Plastic (OBP) certification for long fibers in Korea.

- regen[®]
- regen[®] Jeju
- regen[®] Seoul
- regen[®] Ocean
- askin
- aerocool
- aerosilver
- prizma
- firex
- xanadu
- m2
- cotna
- aerogear
- freshgear
- aeroheat ex
- aerolight

Fabric Unit

Supplies various fabric materials such as functional clothing, protective clothing and cleaners

The fabric unit has an integrated production system ranging from yarn, weaving, and dyeing, to post-processing, and is concentrating on the development of highly functional high-tech products. Representative products are fabrics for general garments, fabrics for workwear, and fabrics for non-garments.

The fabric unit produces and sells waterproof and ultra-lightweight clothing made with functional yarns, and for workwear fabrics, it produces and supplies work clothes, flameproof fabric products such as functional aramid, and modacryl, and protective clothes and military fabrics using para-aramid yarn. For non-garment fabrics, the textile division produces and sells cleaner products that can be used in various electronic products through Finestar[®], a comprehensive brand of cleaner products using microfibers.

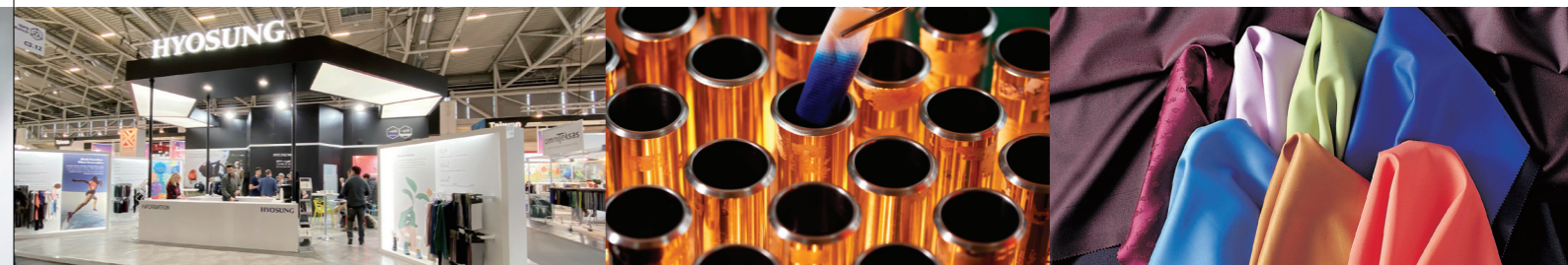
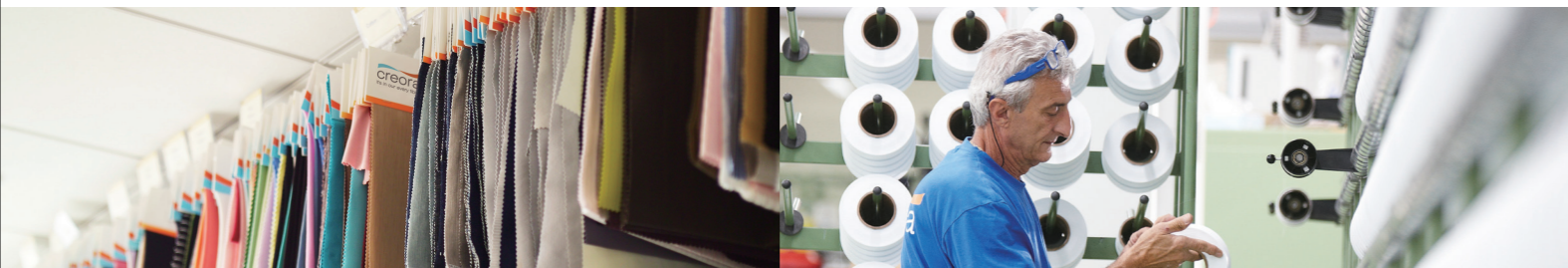
- Fabrics for general garments
- Fabrics for workwear
- Fabrics for non-garments

Dyeing Unit

Possesses the processing capacity to dye 700,000 yards of nylon two-way spandex per month and 2.5 million yards per month

The dyeing unit is the leader in the domestic dyeing processing industry and owns the highest level comprehensive dyeing plant in Korea. In particular, the dyeing unit has a production facility that can handle up to 700,000 yards of nylon two-way spandex per month, which is difficult to process. It also provides a variety of additional processing such as buffing, sanforizing, and gassing that can further enhance the functionality of the product, with a focus on dyeing processing for nylon two-way spandex.

- Spandex products
- Mixed fabrics
- Polyester products



Steel & Metal Products PU I, II

Leading the trade of steel products by strengthening import and export partnerships with customers from around the world

The Steel & Metal Products PU exports products from major steel companies such as POSCO and Hyundai Steel in Korea, and provides the best services in various fields, such as special steel, steel-related raw materials and steel processing facilities. With its skilled manpower, the Steel & Metal Products PU will strive to more sincerely provide professional technical information and the best service to customers around the world.

- Steel & Metal I : hot-rolled coils, wire rods, cold-rolled coils, plated steel plates, medium/thick plates, electric steel plates, tin plates, steel raw materials, and steel processing facilities
- Steel & Metal II : stainless steel hot-rolled coils, stainless steel cold-rolled coils, stainless steel wire rods, thick plates, rod steel, steel bars and section steel, steel raw materials, etc.

Chemical Products PU

A leading chemical trading company that provides the best service for customer satisfaction

The Chemical Products PU has grown into a professional trader by conducting various chemical product trades based on Hyosung's global network, which is growing all over the world, and the infrastructure built through many years of business experience. The Chemical Products PU diversifies upstream items into downstream chemical products around the world and develops chemical products that create customer value by providing business solutions to customers. In addition, the Chemical Products PU is strengthening its trading of key products beyond the fields of petrochemical and precise chemical products to mineral resources, and expanding its business scope by expanding its value chain and its imports and exports worldwide.

- Synthetic fiber raw materials : TPA, PET Chip, Recycled PET, PSF, Recycled PSF
- Synthetic resins : PP, PE, ABS, PS, PVC, etc.
- Fine chemicals : MDI, TDI, PTMG, ECH, BPA, epoxy resin, PIA, NPG, nitric acid, ammonium nitrate, etc.
- Mining chemical products and concentrates : concentrates (gold concentrate / silver concentrate / lead concentrate / zinc concentrate / copper concentrate / antimony concentrate) NaCN, Zinc Dust
- Others : TiO₂, Palm Oil, UCO, Adipic Acid, etc.

Sebitseom Business Division

Sebitseom, a comprehensive, floating cultural space

The business division operates Sebitseom, the world's first floating building, and has developed it into a landmark of Seoul and the Hangang River. Sebitseom consists of three islands, Gavit, Chavit and Solvit, and Yevit, a floating stage space, with multiple restaurants, cafés and event spaces. In addition, as it also has a leisure water activity facility where tourists can enjoy the Hangang River, people visiting Sebitseom can enjoy a unique experience with a differentiated night view.

POWER & INDUSTRIAL SYSTEMS / CONSTRUCTION

- Hyosung Heavy Industries Corporation
- HYOSUNG GOODSPRINGS Inc.
- Chinhung International, Inc.



ENERGY SOLUTION PROVIDER

In addition to the power transmission and distribution equipment business, Hyosung is focusing on and expanding the IT-based power automation business (such as condition monitoring and preventive diagnosis systems) and the smart grid business.



GREEN ENERGY TECHNOLOGY

Hyosung is a leading green technology provider that supplies power systems and premium efficiency motors for the new, environmentally-friendly energy production systems, including Hydrogen gas filling station.



GREEN CONSTRUCTION

Hyosung has developed a ternary system composite by mixing cement with blast furnace slag (a byproduct from steelworks) and fly ash (a byproduct from thermal power plants) to reduce the consumption of the raw material-cement. In addition, Hyosung is striving constantly to develop more eco-friendly materials.



Hyosung Heavy Industries Corporation

Power Systems PU
 Industrial Machinery PU
 Wind Energy Business Division
 Construction PU

Future power grid systems and eco-friendly construction will drive green growth

Hyosung Heavy Industries has the world's best technological capabilities in the field of heavy electric machinery, which is the core of industrial energy. Hyosung Heavy Industries is recognized for its excellent quality in the field of power facilities, covering transformers, circuit breakers, and rotating devices such as electric motors and gears, and is leading key technologies necessary for the construction of future power grid systems such as energy storage devices (ESS), static synchronous compensators (STATCOM), and direct current transmission systems (HVDC / MVDC / LVDC). In addition, based on our many years of experience and trust, we are actively participating in various construction fields, such as housing, business and commercial facilities, civil engineering and the environment, SOCs, and data centers.



Power Systems PU

The hidden leader of power supply in Korea / No. 1 cumulative market share in the transmission and distribution market in Korea

Over the past half century, Hyosung Heavy Industries has been leading the domestic power transmission and substation industry, supplying power facilities such as ultra-high voltage transformers, circuit breakers and electrical equipment as its main items. Since Hyosung Heavy Industries entered the global market based on its long-standing know-how, it has been recognized for its excellent quality and high technological capabilities and has established a global production system by operating overseas production bases in the United States, India and China. In addition, Hyosung Heavy Industries is leading innovation in the power industry, which is becoming more sophisticated, by expanding its energy storage system (ESS), static synchronous compensators (STATCOM), direct current transmission systems (HVDC/MVDC/LVDC), and IT-based power facilities asset management businesses. Hyosung Heavy Industries provides comprehensive engineering & solutions based on its know-how of such power facilities.

- Transformers (ultra-high voltage transformers, oil-immersed distribution transformers, cast resin transformers, shunt reactors, and special transformers)
- Switchgears (SF6 gas insulated switchgear, eco-friendly gas insulated switchgear, switchboards, and motor control panels)
- Power IT systems (power facility asset management solution (AMS), preventive diagnosis system, power facility maintenance solution, and electrical equipment control & monitoring system (ECMS))
- Energy storage system (ESS) · STATCOM
- Turnkey solutions (AIS / GIS substations and solar power plants)
- DC transmission and distribution system (HVDC / MVDC / LVDC)

Industrial Machinery PU

No. 1 Electric Motor Manufacturer in Korea

The Industrial Machinery PU specializes in producing rotating devices such as motors, generators, and gears, and industrial machinery such as chemical equipment and gas filling stations. With the technology and know-how accumulated over many years, the motor division has succeeded in domestically producing low-voltage small and medium-sized motors, high-voltage super-large motors, super premium efficiency motors, propulsion motors for the defense industry, BLDC motors, Q-class motors for nuclear power plants, etc. The motor division is realizing customer satisfaction through various products, such as marine generators, steam turbines, hydro turbines, and MG sets in domestic and foreign markets. In particular, it succeeded in domestically producing an "MG set for controlling fuel rods" for the first time. The PU is also producing gear units, which are power transmission devices, making them reliable products that are trusted in various industries.

The industrial machinery division, recognized for its technology and quality, produces key equipment such as the towers and columns used in petrochemical, oil and gas plant processes. Based on this, it is expanding its business area to high-end medical devices, such as proton therapy devices. The gas filling station business has been supplying hydrogen/CNG stations and systems based on CNG compression system technology, accumulated by participating in the government's eco-friendly vehicle supply project since 2000.

- Motor · Gear · Generator · Chemical equipment · Gas filling station · Hydrogen station



Wind Energy Business Division

Contributes to the development of the wind power industry through competitive products and technology

The wind energy business division, a leader in the Korean wind power industry, has succeeded in developing the first geared 750 kW wind power generation system in Korea. The wind energy business division also developed the first 2 MW wind power system in Korea and acquired international certification from DEWI-OCC, a wind power certification authority in Germany. The wind energy business division has developed a 5.5 MW offshore wind power generation system suitable for the domestic typhoon environment and is contributing to the development of the wind power generation industry based on its competitive products and differentiated technological capabilities.

- Wind power generator (5.5MW / 2MW / 750kW)

Construction PU

Introduced the villa-type residential culture for the first time in Korea

The Construction PU, which introduced a new concept of residential culture by introducing villa-type residential buildings for the first time in Korea in the 1970s, is striving to go beyond customer satisfaction with its differentiated technological and construction capabilities in the housing, construction, and industrial fields. In particular, the Construction PU is striving to create a new spatial culture in which nature and technology are in harmony, while strictly complying with environmental laws and other requirements for beautiful coexistence with the environment. Harrington, a brand of the Construction PU, has been increasing its synergy by integrating brands with its affiliate, Chinhung International, Inc., since 2013.

- Housing (apartments, residential and commercial buildings, villas, and terrace houses)
- Construction field (business and commercial facilities, leisure facilities, and logistics facilities)
- Civil engineering field (roads, railroads, site development, and golf courses)
- Industrial field (plant facilities, power generation facilities, electric power facilities, and data centers)



HYOSUNG GOODSPRINGS Inc.

Chinhung International, Inc.

Global Pump Solutions Provider

HYOSUNG GOODSPRINGS is leading global market trends by supplying pumps for various purposes, ranging from oil & gas plants and power plants to building, general industrial and household use to meet customer needs.

HYOSUNG GOODSPRINGS satisfies the stringent requirements of its global customers, especially with its reliable high-pressure pumps up to 400 bar and the technical capabilities of 450°C high temperature and -195°C cryogenic services. At HYOSUNG GOODSPRINGS's test center, it is possible to test the ultra-large/ ultra-high pressure pump up to a flow rate of 110,000 m³/h, a pressure of 400 bar, and a room temperature of up to 200°C.

Furthermore, HYOSUNG GOODSPRINGS has been responsible for supplying difficult core pumps to nuclear power plants in Korea since it became the first in the domestic pump industry to acquire the Korea Electric Power Industry Code (KEPIC) certification for nuclear safety-grade pumps in 1998.

- Pump business : Oil & Gas plants, power plants, reverse osmosis (RO) and water supply plants and buildings, and general industrial and household pumps

Becoming a trusted construction company based on 60 years of construction know-how

A comprehensive construction company focused on the civil engineering, construction, and housing businesses

In the 1970s, Chinhung International entered overseas markets in Saudi Arabia, Kuwait, Guam, and more, and was awarded the Iron Tower Order of Industrial Service Merit and the \$1 Billion Construction Export Tower, thus establishing itself as a representative construction company in Korea. Chinhung International is participating in various national infrastructure construction projects based on its know-how and technological capabilities accumulated over half a century.

- Civil engineering business (roads, railroads, housing sites, landscaping, bridges, tunnels, and the environment and ports)
- Construction business (sports facilities, industrial facilities, knowledge industry centers, business facilities, barracks/ educational/cultural facilities)
- Housing business (apartments, reconstruction/redevelopment, efficiency apartments, terrace houses, complexes, and public apartments)



ADVANCED MATERIALS

- Hyosung Advanced Materials Corporation
- Global Safety Textiles (GST)



WORLD'S LEADING SOLUTION PROVIDER

Hyosung Advanced Materials Corporation provides optimized customer value based on a system that can collectively produce and supply tire cord, steel cord, and bead wire, which are core materials for reinforcing tires.



GLOBAL PRODUCTION SYSTEM

Having established an optimized global production system in various places, including China, Vietnam, US, Mexico and the EU, Hyosung Advanced Materials Corporation supplies high-quality products and timely customer services.



EXTREME STRENGTH

Hyosung Advanced Materials Corporation has successfully developed and commercialized ALKEX[®], a dream fiber which is stronger than steel, and carbon fiber TANSOME[®], which is a cutting edge material having only one-fourth the density but 10 times the strength of steel.

Hyosung Advanced Materials Corporation

Tire & Industrial Reinforcements PU
 Technical Yarn PU
 Interior PU
 Carbon & Aramid PU

Hyosung Advanced Materials International prioritizes the safety and happiness of customers with its optimal high-tech materials

Hyosung Advanced Materials produces high-strength industrial yarns, fabrics, and steel wire materials. In particular, it supplies tire cords, yarns for automobile seat belts, and airbag fabrics, for which products it has the largest market share in the world. It is strengthening its competitiveness through the self-development and commercialization of new materials that will drive sustainable growth.



Tire & Industrial Reinforcements PU

No. 1 market share in the world / Supplies 50% of the tires of passenger cars worldwide

The Tire & Industrial Reinforcements PU is the only comprehensive tire reinforcement manufacturer in the world that collectively supplies reinforcement materials for tires, ranging from fiber tire cords to steel cords and bead wires. In particular, the company's polyester tire cords, which have the largest market share in the world, have been recognized for their excellent quality by global tire manufacturers, as evidenced by the signing of long-term supply contracts with Michelin and Goodyear. The Tire & Industrial Reinforcements PU has established local production systems in Korea and around the world, including in Japan, China, Vietnam, and Luxembourg, to supply products in a stable manner and provide prompt services. In addition, the Tire & Industrial Reinforcements PU, a global no. 1 supplier of ultra-tensile steel cord, is developing products to meet customer needs, such as lightweight and eco-friendly products.

- Tire cord
- Steel cord
- Bead wire

Technical Yarn PU

No. 1 in global market share of yarns for seat belts / No. 1 in market share of domestic industrial yarn

The Technical Yarn PU, which has the No. 1 market share in Korea in the field of technical yarns (industrial high-strength yarns) and the No. 1 global market share of yarn for automobile seat belts, is selling various types of yarn needed in all industries, including automobiles, industrial use, and tailors, in the optimal form. The Technical Yarn PU developed a polyester yarn for automobile airbags for the first time in Korea, and it has high market growth potential. As it develops recycled polyester yarns for automotive airbags, the company is steadily demonstrating research results and new products to provide customers with new value and growth engines. It is providing differentiated services through overseas production plants in China and Vietnam, and is continuously expanding its production capacity overseas.

- Polyester yarns for broad woven coated fabric
- Polyester yarns for seat belts
- Polyester yarns for conveyor belts, rubber hoses, and power transmission belts
- Polyester yarns for sling belts and straps
- Polyester and nylon 66 yarns for airbags
- Polyester and nylon 66 yarns for tailors

Interior PU

No. 1 market share in domestic roll and tile carpets

The Interior PU is the only carpet company in Asia that has its own production facilities, which produce everything from yarns to finished products. In particular, the Swan Tile Carpet, its flagship product, has acquired eco-label certification from Korea and the United States and KS certification, and is leading the commercial carpet market with its unique quality advantages. The Interior PU is also actively responding to changes in customer needs by developing the first square hollow nylon yarn in Korea with excellent contaminant-resistance and wear-resistance. As for automotive carpets, the Interior PU produced the world's first polyester tufted automotive carpets and supplies products to automobile companies such as GM and Chrysler. The Interior PU is also leading the automotive carpet market by developing automotive carpets (recycled, antibacterial products) produced with yarns certified by the GRS (Global Recycle Standard) in line with the trend of electric vehicles, which are eco-friendly.

- Automotive carpets: floor carpets and optional mats
- Commercial carpets: swan roll carpets, swan tile carpets, and swan mats
- BCF yarns for carpets: nylon, polyester, and polypropylene

Carbon Aramid PU

Hyosung Advanced Materials' aramid and carbon fibers, developed with its proprietary technologies, have the potential to be utilized in various industrial fields due to their high-strength properties.

Carbon Material Business

Korea's first commercialization of high-strength, intermediate modulus carbon fiber

With growing interest in increasing the efficiency of energy use, carbon fiber is gaining more attention as a key material for weight reduction. Carbon fiber is a fiber material with a carbon content of 92% or more. It is a state-of-the-art material that is a quarter less dense than steel but more than 10 times stronger, and it is used in various industries and sports/leisure fields.

In particular, TANSOME®, the first high-performance carbon fiber developed in Korea, comes in a standard modulus grade (tensile strength of 5.5 GPa and tensile modulus above 250 GPa) and an intermediate modulus grade (tensile strength of 5.5 GPa and tensile modulus above 290 GPa). We are currently aiming to increase our annual production capacity of 6,500 tons to 24,000 tons by 2028.

- For industry (pressure vessels, civil engineering construction, automotive parts, wind blades, etc.)
- For aviation (aircraft interior and exterior materials, brake discs, etc.)
- For sports/leisure (golf clubs, fishing rods, luxury bicycles, rackets, luxury leisure vessels, etc.)

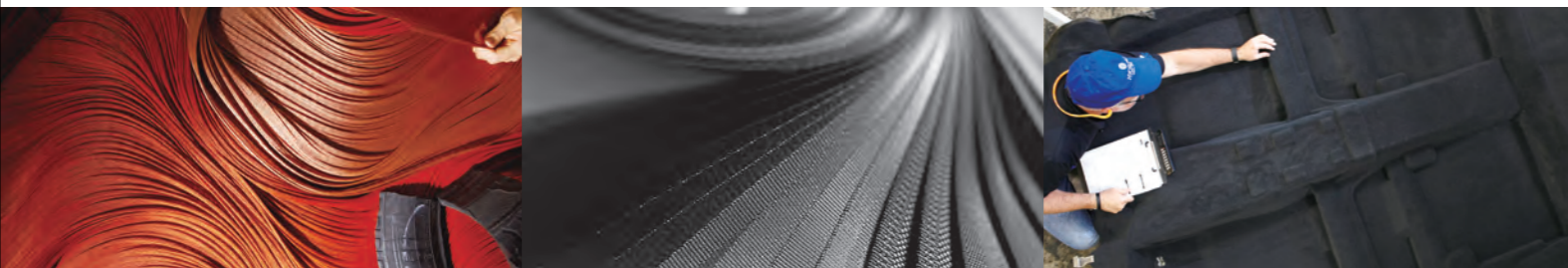
Aramid Business

Successful commercialization of Aramid Fiber- ALKEX®

ALKEX®, a high-functional super fiber developed with proprietary technologies, boasts five times stronger strength than steel and unique flame retardant properties. ALKEX® is employed as a core material for bulletproof vests, helmets, and vehicles, and is actively being used for automobile and industrial purposes.

It has recently been in the spotlight as an alternative to the asbestos used in automotive brake pads and linings. In order to respond to the increase in demand, the Interior PU is striving to meet customer needs with a variety of products by securing an annual production capacity of 3,700 tons as of 2022.

- Yarns/fabrics for bulletproof products
- Yarns for fiber-optic cables and ropes
- Yarns for civil engineering and construction reinforcement
- Yarns for composite materials
- Yarns for MRG (for reinforcing hoses and belts)
- Yarns for protective clothing



Global Safety Textiles (GST)

The world's largest airbag fabric manufacturer

Global Safety Textiles (GST), which produces flat fabrics, cushions, and OPW (one piece woven) products, is the world's largest manufacturer of airbag fabrics and has the world's largest market share in flat fabrics. GST boasts high technological competitiveness, as it holds patents for the latest weaving, cutting and OPW processes, and supplies a wide range of products to suit customer needs based on its total airbag fabric and cushion production processes. Germany-based GST is maximizing customer satisfaction based on its global network.

- Flat fabric for airbags (coated/uncoated/high-con)
- Cushions for airbags
- OPW fabric for airbags (coated/laminated/X-tether)



CHEMICALS

- Hyosung Chemical Corporation



HIGH-QUALITY POLYPROPYLENE

Hyosung Chemical operates propane dehydrogenation (DH) process to steadily supply the main ingredient, high-purity propylene. And this allows high-quality polypropylene (PP) to be supplied globally.



FILM MARKET EXPANSION

TAC film is an electronic material that Hyosung has developed in-house, the first of its kind in Korea. It is widely used in LCD panels for TVs, computer monitors, laptops, cell phones and other electronic products. Hyosung has kept pace with changing market conditions by additionally developing acryl film, which is resistant to water and based on TAC film technology.



THE NEW MATERIAL THAT WILL LEAD THE PARTS INDUSTRY

POKETONE™ (Hyosung Polyketone) is a next-generation engineering plastic successfully commercialized by Hyosung Chemical for the first time in the world, and it is an eco-friendly polymer material produced by using CO and Olefin as a raw material.

Hyosung Chemical Corporation

PP/DH PU	Neochem PU
TPA PU	Film PU
POK Business Division	Optical Film PU

Hyosung's chemical material technology brings convenience to daily life

Hyosung produces a variety of chemical products, such as TPA, which is exported to countries in Asia, Europe, and the Middle East, and polypropylene (PP), including R200P, which has the largest market share in the world. In particular, POKETONE™, which is the world's first successfully commercialized new material for engineering plastics, will become a core material leading the global parts industry based on its excellent physical properties and competitiveness.

PP/DH PU

Polypropylene resin TOPILENE®, with global competitiveness Grade for PP-R Pipes ranked No. 1 in the global market

Hyosung Chemical's TOPILENE® is a brand of polypropylene resin, which is one of the most popular plastic resin in the world. Hyosung Chemical have two production site, in Korea and Vietnam, and export resins to all over the world. The random copolymer for pipe applications is one of the world's best products, and is being exported to many other countries. Furthermore, to secure a stable supply base for high-purity propylene, which is the main raw material in polypropylene resin, Hyosung Chemical has established vertical integration by supplying itself with high purity propylene from the propane dehydrogenation (DH) process, where it has adopted cutting-edge technological methods.

· PP (Polypropylene)

TPA PU

Production of the highest quality, high-purity TPA based on advanced chemical technology and experience

The TPA PU produces and supplies 420,000 tons of high-purity TPA annually, which is used not only as the main raw material of highly functional polyester fiber, but also as a raw material for various products used in industrial and everyday purposes, such as tire cords, PET bottles, and polyester films. The high-purity TPA produced with Hyosung's chemical technology, at its cutting-edge facilities using manufacturing methods improved over many years, is helping to improve the competitiveness of polyester-related manufacturers around the world thanks to its highest quality and stable physical properties.

· TPA (high-purity terephthalic acid)

POK Business Division

Production of the highest quality, high-purity TPA based on advanced chemical technology and experience

POKETONE™ is the brand name of a new eco-friendly engineering plastic material consisting of carbon monoxide (CO) and olefin that Hyosung Chemical succeeded in commercializing for the first time in the world. It has excellent impact strength and chemical resistance compared to polyamide, and the abrasion resistance is superior compared to polyacetal (POM). It also has excellent gas blocking properties. The POK business division completed the construction of a commercial production plant in 2015 and is aggressively expanding into the engineering plastic market.

· POKETONE™



Neochem PU

Production of NF₃, used in the manufacturing process of advanced products such as semiconductors, displays, and solar products

The Neochem PU, which independently developed nitrogen trifluoride (NF₃ gas), a special industrial gas used in semiconductors, displays, and solar cells, produces and sells high-quality products based on its know-how and technological capabilities in the chemical field accumulated at its cutting-edge facilities.

The POK business division has also established a stable supply system by continuously expanding production lines in line with the expanding semiconductor and display markets, and is promoting the production of various products with the goal of becoming a manufacturer specializing in special gases.

- Nitrogen trifluoride (NF₃)
- 20% F₂/N₂ mixed gas
- Chlorine, hydrogen chloride gas

Film PU

The third-largest global supply capacity of nylon film / A global leader

The Film PU produces and supplies various highly functional products with stable quality based on its accumulated technical know-how. Nylon film is used for food packaging, pharmaceutical packaging, and lithium secondary batteries due to the excellency of its impact strength, anti-pinhole properties, printability and oxygen barrier.

Polyester film is a material with excellent mechanical properties, heat resistance, and printability, and is widely used in industrial fields ranging from packaging to the electrical and electronics fields. Through R&D and innovation in production technology, Hyosung Chemical is strengthening its growth base by expanding into the fields of high value-added products for automotives and building windows, optics, and electrical and electronic applications.

- Nylon film (for food packaging, pharmaceutical use, and lithium secondary batteries)
- Polyester film (for packaging, optical, and industrial use)

Optical Film PU

Self-development and production of TAC film for polarizing plates

The Optical Film PU develops and produces tri-acetyl cellulose (TAC), which protects the PVA polarizing film in the LCD polarizing plates used for TVs, monitors, laptops, and mobile phones.

The Optical Film PU built a plant to produce TAC film for LCDs in Ulsan, the first plant in Korea to mass produce TAC film, followed by a second plant completed in Oksan in 2013. With both in operation, it has an annual production capacity of 110 million m². The Optical Film PU is expanding sales by entering the Chinese market, which is emerging as the world's largest display market, and in 2018, it additionally developed acryl films that are resistant to water to respond to changing markets.

- TAC and acryl films

INFORMATION & COMMUNICATION

- Hyosung TNS Inc.
- Hyosung Information Systems Co., Ltd.
- Hyosung ITX Co., Ltd.
- Galaxia Electronics Co., Ltd.
- Galaxia Moneytree Co., Ltd.
- Galaxia Metaverse Co, Ltd.
- Galaxia Device Co., Ltd.



FINANCIAL AUTOMATION SOLUTION

Based on its advanced technologies, Hyosung is consolidating its position as a global leader across financial automation solution sectors, including development, manufacturing, maintenance, financial VAN and outsourcing services.



CLOUD COMPUTING

Only Hyosung has built a full lineup of cloud computing services in Korea that provides virtual servers, storage, and the network.



NGCN SOLUTION

We provide enterprise network solutions (Wi-Fi AP) that can be applied to various areas, such as smart city and smart tourism business, based on the differentiated functions of the smart zone platform that offers wireless infrastructure management and flexible expandability.



Hyosung TNS Inc.

Korea's No. 1 ATM Market Leader Exporting to more than 40 countries

Hyosung TNS, established in 1979, is a "total financial service automation solution" company that aims to introduce to the world the latest technological innovations, and has grown to become a leader in the global financial automation industry by providing convenience and trust to users and profitability and competitiveness to clients.

Hyosung TNS, which holds the undisputed No. 1 spot in the Korean ATM market, has also exported more than 770,000 financial automation solutions to more than 40 countries around the world, including the United States, Russia, and Nigeria, where it has achieved the largest ATM market share since exports began in 1998. In addition, Hyosung TNS is expanding its global businesses by building retail platforms through the development of innovative solutions that combine both hardware and software, and also by supplying automation solutions to the retail sector to help businesses efficiently run their stores.

- Branch Transformation Solutions
- Automated Teller Machines
- Multi Function Kiosks
- Video Banking Solutions
- Real-time ATM Monitoring Software
- MyCashZone
- Self-Checkout
- Digital Desk Solutions
- Cash Recycling ATMs
- Cash Dispensers
- Teller Cash Recyclers
- Multi-Vendor Software
- ATM Operate Outsourcing Services
- SmileEDI
- Self-Ordering Kiosks
- AI Fridge



Hyosung Information Systems Co., Ltd.

A company specializing in data infrastructure and digital transformation (DX)

Hyosung Information Systems started in 1985 as the first IT company in Korea to supply mainframes and disks to public and financial institutions, and has supplied IT solutions and services to all industrial fields and approximately 1,700 SI companies. Hyosung Information Systems is presenting a portfolio for modernizing data centers by strengthening its cloud business, and recently, it has been supporting the acceleration of digital transformation for its clients by expanding various solutions such as AI/HPC, IoT, and DataOps.

- IT infrastructure & data center modernization and consulting service
- Private/hybrid cloud solutions
- Data analysis & operations portfolio
- Big data & IoT platform (smart factory)



Hyosung ITX Co., Ltd.

Big data technology and large-scale IT infrastructure

Hyosung ITX provides the services needed throughout the enterprise through its contact center business that strategically manages corporate communication channels, its IT service business that designs and builds IT systems, and its display solution business that provides sales and installation services for video devices. Recently, it has been helping to strengthen the competitiveness of clients and creating added value through services that incorporate technologies such as AI, big data, and IoT in response to the trends of the Fourth Industrial Revolution.

- Contact center
- CDN (Content Delivery Network)
- SI (System Integration)
- SM (System Management)
- Display solution
- Smart Factory Solution



Galaxia Electronics Co., Ltd.

A company that specializes in manufacturing LED display systems, architectural landscape lighting, and LED lighting fixtures

Galaxia Electronics is a company specializing in LED applications that develops and manufactures LED displays and LED lighting systems. Galaxia Electronics' LED displays are drawing attention in the global entertainment market due to features such as vibrant and deep color implementation and the first implementation of a super-large 3D screen.

Galaxia Electronics has a unique technology for designing "media façades," an area of new visual and spatial art in which buildings display spectacular images, especially after sunset, and turn into huge works of art. In addition, Galaxia Electronics produces a full line-up of white LED lighting and provides lighting solutions optimized for various customer environments with control solutions that maximize energy savings.



Galaxia Moneytree Co., Ltd.

A leading company in the comprehensive financial platform service of the FinTech market

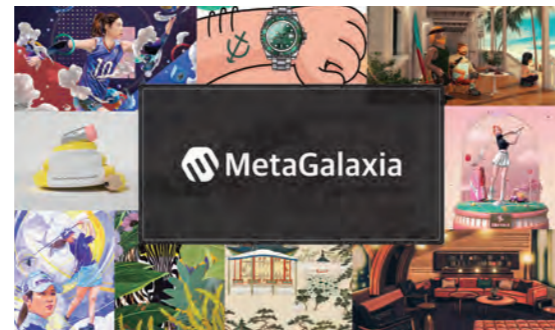
Galaxia Moneytree, the only company in Korea with the source technology for integrated electronic payment solutions, provides online and offline payment services such as mobile phone micropayments and credit card payments. Based on the know-how gained from issuing and distributing the first mobile department store gift certificates in Korea and its competitiveness in the domestic convenience store payment market, Galaxia Moneytree provides the "Money Tree" platform, a simple payment platform.



Galaxia Metaverse Co, Ltd.

Promotes blockchain-based businesses and leads the NFT market with Metagalaxia, an NFT marketplace

GalaxiaMetaverse, a subsidiary of the fintech company Galaxia Moneytree, is expanding its blockchain business starting with its non-fungible token (NFT) business. GalaxiaMetaverse owns the largest number of IPs in Korea and is leading the market by issuing differentiated NFTs such as art, stars, and luxury, and plans to promote blockchain businesses with STO and Defi in the future.



Galaxia Device Co., Ltd.

Develops and produces mobile device components, ATM rollers and units, optical sensors, motors, etc

Galaxy Device, an IT component company, produces core components for terminals such as mobile phones, PDAs, key phones, and remote controllers, as well as various OA devices. Galaxy Device has secured global competitiveness in all areas, ranging from product design to development and quality assurance, and has been working with Samsung Electronics as a collaborative partner in the wireless, printer, and video fields for the past 30 years. In addition, Galaxia Device is focusing on the localization of the pick-up roller, which separates and guides banknotes within ATMs, the production of F-rollers and G-rollers, which are core components of ATMs, and the development of competitive products. Galaxia Device is demonstrating its competitiveness in the development and production of core units and modules of automated systems used in ATMs and check processors.



OTHER AFFILIATED COMPANIES

- The Class Hyosung Corporation
- Hyosung Toyota Corporation
- The Premium Hyosung Co., Ltd.
- Forza Motors Korea Corporation
- Hyosung Premier Motors Corporation
- A-seung Automotive Group Co., Ltd.
- Shinwha Intertek Corporation



TOTAL SERVICE FOR GLOBAL AUTOMOBILE

Providing total services ranging from initial consultation, purchasing, financing, after-sales service, to used car sales for customers purchasing prestige cars such as Mercedes-Benz, Toyota, Lexus, Maserati, Ferrari, Jaguar, and Land Rover.

The Class Hyosung Corporation

The Class Hyosung is the best official dealer selected by Mercedes-Benz. The Class Hyosung provides the best Mercedes-Benz services based on stable and differentiated services, constant investment and the trust that only large companies can provide. The Class Hyosung is a premium lifestyle provider that offers total services, from consulting on new cars to purchasing, financing, after-sales services, and selling of certified used cars.



Hyosung Toyota Corporation

Hyosung Toyota, which was founded in October 2009, is an official TOYOTA dealer and a companion that allows customers to design new lifestyles and experience impressions, rather than simply selling cars. Hyosung Toyota is the first TOYOTA dealer to obtain the Kodawari certification, and operates a CRM program. Customers can find Hyosung Toyota at the showrooms in the Seocho, Gangseo, and Pyeongchon districts and at the service centers in Gangseo and Seocho.



The Premium Hyosung Co., Ltd.

The Premium Hyosung is an official dealer of Toyota Motor Korea, selling Lexus and Toyota vehicles in the Jeolla-do region. The Premium Hyosung runs showrooms and general repair (GR) centers in Gwangju, Jeonju, and Suncheon, as well as the largest Gwangsan (BP) service center in the Jeolla-do region through its one-stop total service.



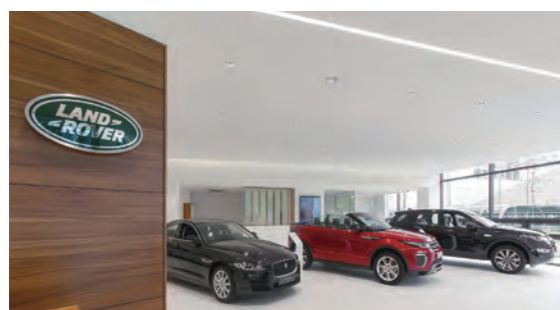
Forza Motors Korea Corporation

FMK (Forza Motors Korea Corporation), which has officially imported and sold Ferraris and Maserattis since June 2007, has been carrying out marketing activities not only to sell vehicles but also to share the philosophy and culture of vehicles with customers. Based on this, FMK has built varied infrastructure to provide the best service to its customers and is conducting strategic VVIP marketing activities, thereby doing its best to help customers experience the value of the brand through various service programs.



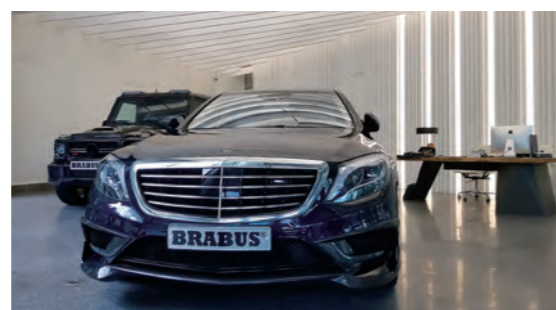
Hyosung Premier Motors Corporation

Hyosung Premier Motors is an official dealer for Jaguar Land Rover. Hyosung Premier Motors, which was founded in 2016, delivers the proprietary value of Jaguar Land Rover's "British Luxury" to customers, and has the brand's largest comprehensive service centers and showrooms of new and used cars in Busan and the Gyeongsang-do region. Hyosung Premier Motors provides differentiated premium service to Jaguar Land Rover customers based on its customer-first principle.



A-seung Automotive Group Co., Ltd.

A-seung Automotive Group is the sole importer in Korea that exclusively imports complete cars and tuning parts from world-renowned brands Brabus, ABT, and AC Schnitzer. Customers can experience world-class high-performance vehicles at the one-stop showroom and service center located in Banpo-dong, Seoul.



Shinwha Intertek Corporation

A company specializing in optical films for LCD TV BLU and tape materials for mobile OLEDs

Shinwha Intertek, a market leader in optical film for LCD BLU, has developed its own technology and is trading with major TV manufacturers and LCD panel manufacturers worldwide. Shinwha Intertek has built a customer-oriented SCM by expanding and localizing its supply capacity through two overseas subsidiaries (Suzhou and Dongguan in China). In addition, to expand its business area, it has developed optical films for LCD BLU and high-functional films and tapes for OLED and has been supplying them to clients since 2014.





Technology makes dreams come true, Hyosung's technology opens up a new world

Since Hyosung established Korea's first private R&D center affiliated with a corporation in 1971, the company has developed five world's best products and many other world-class products and brands in textiles, advanced materials, chemicals, power & industrial systems, and information & communication fields, profoundly affecting the lives of people. Globally competitive technical competence, experience in and passion for R&D, and an unquenchable thirst for challenges will enable Hyosung to open up a new world of technology with a pioneering spirit.

RESEARCH & DEVELOPMENT

- R&DB Labs
- Power & Industrial Systems R&D Center
- Steel Wire Technical Center
- Technology R&D Center

R&DB LABS

Established as Korea's first R&D Center affiliated with a corporation in 1971, Hyosung R&DB Labs has expanded its research scope to raw materials and products of chemical, based on R&D capacities in synthetic fiber research, the driving force behind Korea's industrialization. Hyosung's 'Central Laboratory' and 'Production Technology Center' have been integrated into 'Hyosung R&DB Labs' for a greater synergy in September 2006. Hyosung reorganized its structure into five major research groups based on 10 core basic technologies, in order to create new business opportunities in 2011. In addition to research technologies for future business areas, which are going to provide the basis for future growth, Hyosung R&DB Labs are developing new products and processes and help them to be widely utilized as rapidly as possible.



Research Areas

- Textile research group (New industrial textile, Functional apparel textile)
- Polymerism research group (Engineering plastics, Polymers, and catalysts)
- Film research group (Optical films and industrial films)
- Functional materials research group (Carbon fiber and compound materials, Membranes)
- Electronics materials research group (Nano materials)

Research Results

2021	Developed high-snapback spandex, Developed super cooling NY fiber, Developed spunbond non-woven PP grade, Developed extrusion coating PP grade, Developed block PP for thin wall injection molding, Developed high impact strength PP for retort film, Developed high transparent PP for blow molding	2011	Developed protective film technology for eco-friendly polarizing plates, antireflective films for TV sets, high modulus carbon fibers, high heat resistance and high elongation spandex, highly functional PET multi-lobal yarns, and ultra-low shrinkage yarns for broad woven.
2020	Developed cotton dyeable spandex, Developed bio-based spandex, Recycled NY Robic luster specialty, Developed CD Recycle PET, Developed high impact resistance HPPB materials for sewage pipes, High performance antistatic film, Intermediate modulus carbon fiber, Ultra high strength carbon fiber	2010	Developed highly chlorine-resistant spandex, highly functional nylon shaped yarns (Aqua-X), highly sensitive nylon shaped yarns (Rexy), high value-added electronic material with PP grade, and laptop thin films.
2019	Developed PET CD continuous polymerization process, Quality improved NY bonding fiber, Developed soft spandex, Developed differentiated tire cord with high tensile strength and high modulus, Developed tire cord dip-recipe for improved thermal resistance and adhesive force, Developed crosslinked forming PP	2009	Developed highly colorful sportswear PET yarns (Prizma), transparent PP grade for LCD protective films, high-density catalysts for propane dehydration, anisotropic conductive films (ACF), normal grade for small LCDs and heat-resistant BOPA film and chemically treated BOPA film for adhesion.
2018	Developed R-TPO (Reactor made Thermoplastic Olefin) grade	2008	Developed thermo-keeping polyester fiber (Aerowarm), recycled polyester long fibers (Regen), para-aramid fibers, solution-dyed yarns for ARS, 300ml vending machine water bottles, and 200ml 43g light spring water bottles.
2017	Developed recycled flame retardant PET fiber, dope dyed PET fiber for automotive application, high impact strength & transparent PP grade, acquired certification of a new environmental technology for pressurized-type hollow fiber membrane, Developed green dope dyed NY fiber with high tenacity, POK membrane module manufacturing technique, NY/PET conjugated fiber with mélange effect, PK Grade for pipe fitting parts, PK wear-resistant gear grade, PET film for LCD multi-layer sheet	2007	Developed anisotropic conductive films (ACF), flame-retardant Prizma yarns, ultra-high-strength PET yarns for ARS, and PET films for windows.
2016	PET White dope dyed fiber, Developed highest LTHS (long term hydrostatic strength) PPR material, Developed CD (corrugated conduit) grade for cold weather application, Developed high elongational spandex, Developed POK grade for industrial pneumatic tube, Acquired KWWA F106 certification for AMC hollow fiber membrane	2006	Developed polyester Askin yarns, polyester low-shrinkage yarns, polyester conductive yarns, water-repellent yarns for C&L fabric, and nylon bonding yarns.
2015	Developed deodorant PET fiber, 3H normal anti-glare film, anti-ballistic aramid solution, high flexibility & high impact strength Polyketone compound, large tow carbon fiber, YAG and LuAG LED phosphors, heat generating fiber, high tenacity PET hollow fiber	2005	Developed high-purity fluorine gas, polyester latent and potential crimped yarns (Xanadu 55), industrial polyester inflammable yarns, alkali-resistant spandex, and solution-dyed spandex.
2014	Developed specialty conjugated yarn (dope dyed, CD PCP), Developed dope dyed Robic, Medical PP grade for high speed ISBM process, Developed high strength flame retardant Polyketone compound, Developed carbon fiber for pressure vessel, Development of high temperature filtration process using POK membrane	2004	Developed 'MipanNano Magic Silver', a silver nano fiber, PVA fiber, highest spandex, micro-polyester process yarns, and polypropylene polymer catalysts.
2013	Developed solvent-free spandex, PET water repellent yarns, NY66 air-textured yarn (ATY), GF-PPR, grade for extrusion coating, the world's first successfully developed and commercialized new material polyketone (POK), retardation film for VA mode, ultra-wide TAC film, PET film development for LCD light diffusers, transparent conductive film for touch screen panels, high-tenacity intermediate modulus carbon fiber, and acquired certification for pressurized-type hollow fiber membrane module.	2003	Developed PEN tire cords, Lyocell tire cords, Zn-free Spandex, medical PP chips, and multi-lay PET beer bottles
2012	Developed heavy-denier spandex yarn for diaper OETO, health-care / far-infrared emitting fiber, rayon-like PET for UHPT, seat belt yarn for high-quality dyeing, aramid fine denier yarn, high gloss & high stiffness PP, TAC films for 3D FPR, nylon films for secondary-cell cell pouches, low-haze anti-glare film for TVs, high heat resistant prepreg, intermediate-diameter CNT, and acquired certification for a new environmental technology process for submerged-type hollow fiber membrane.	2002	Developed fluorescent spandex, heat-resistant spandex, chlorine resistant spandex, antibacterial nylon textile, polyester films, and nano compound films.
		2001	Developed polyester ultrathin fibers (0.2 Denier), PTT BCF carpets, and nylon film resins.
		2000	Developed sheath-core nylon luminous yarns, DH catalysts, HIPP, and butene random PP.
		1999	Developed polyester ultra-fine fiber, ultraviolet nylon yarns
		1998	Developed HTS special yarns, bottle CoPEN resins, and water-soluble Chitosan
		1996	Developed airbag yarns and synthetic yarns
		1994	Developed antibacterial, anti-odor carpets, hollow yarn film filter water Purifiers
		1993	Developed nylon hollow yarns, wastewater treating microorganisms 'PREMO'
		1992	Developed nylon ultra-fine yarns, dry Spandex
		1989	Developed Full-Dull polyester fiber
		1987	Developed nylon 66 resins
		1986	Developed polyester hollow yarns
		1984	Developed PP resins and epoxy resins
		1983	Developed nylon / polyester microfiber, nylon conductive yarns, artificial suede, artificial grass
		1980	Developed nylon 6 resins
		1978	Developed BCF yarns for carpets

POWER & INDUSTRIAL SYSTEMS R&D CENTER

Hyosung has been recognized for its world-class technology in the field of high-voltage power systems, having developed Korea's first 765kV high-voltage transformer and 800kV gas insulated switchgear. Since its establishment in 1978, Power & Industrial Systems R&D Center has taken the initiatives in technical development in the field of heavy electric machine. More recently, to respond to the new paradigm of the power industry represented by DC grid, it is spurring the development of new technologies, including ESS, STATCOM and voltage HVDC. To respond climate crisis and carbon neutrality request, Hyosung has developed eco-friendly transformers using eco-friendly insulating gas, Gas Insulated Switchgear (GIS) with eco-friendly gas instead of SF6 Gas and Design Skills of Hydrogen Convergence Charging Station with bio-gas. In addition, the company strives to build and develop asset management solutions that provide systematic management services of facility assets combined with the fourth industrial technology-based products and service systems.



Research Areas

- Eco-friendly Transformer, Eco-friendly GIS
- Development of Interpretation Programs for Electric Power Systems
- STATCOM (STATIC synchronous COMPensator)
- ESS (Energy Storage System)
- Voltage Type HVDC (High Voltage Direct Current Transmission system)
- AMS (Asset Management Solution)
- Hydrogen Charging Station

Research Results

2021	200MW Voltage Type HVDC system development (sub module, controller performance test), 98.5% 3MW/3.8MW PCS development for all PV-linked and large sized ESS market, 145kV/300kV LPIT and MU development for digital substation market, Eco-friendly insulating oil and Eco-friendly GIS gas development, Electric vehicle fast charging Power conversion system (semiconductor transformer) and Hydrogen station design skill development for eco-friendly charging infrastructure market.	2012	1MW Li-Battery Energy Storage System, 250kW / 500kW PV PCS, 80kW Permanent Magnetics Synchronous Motor and Drive for Electric Vehicles (EV), EV Charging System, Power transformer Partial Discharge detection Diagnostic System
2020	200MW BTB MMC HVDC prototype development (converter sub-module, sub module controller), Development of 98.7% 2.5MW Modular PCS for PV-linked large capacity ESS market response, Development and construction of AMS (Asset Management System) for Mozambique Power Authority, Development of LPIT (Low power Instrument Transformer) for 145kV GIS, environment-friendly R&D	2011	20kW-800kW PCS for Li-B Energy Storage System, Navy's Next-Generation mid-sized torpedo propulsion motor, 50kW class EV motors (Commercially applied in HMC's EV Model 'RAY'), Dissolved Gas Analysis and Diagnostic System for Power Transformer, IEC 61850 based 154kV M.Tr IED / 170kV GIS IED
2019	200MW BTB MMC HVDC core part development (converter sub-module, sub module controller), Development of 98.5% 700kW DC-DC PCS for railroad vehicles in Osong DC Substation, 125 kW ESS PCS UL (Underwriters Laboratories) Certification, Development of 97% 2MWh ESS for low-voltage DC distribution in Gochang Power Test Center of KEPCO, 7MWh ESS development for DC Grid and energy cost reduction Construction of demonstration complex in Chosun University Campus, Digital substation and environment-friendly R&D	2010	60kW class EV motors (applied HMC's EV test Model 'Blue-On'), Submarine Large-sized Propulsion Motor, 750kW-class DFIG type Wind Turbine PCS
2018	20MW BTB MMC HVDC pilot site commissioning / 400MW class MMC STATCOM installation and commercial operation (KEPCO Shin-youngju S/S, Shin-Choongju S/S) / Development of Asset Management Solution for 154kV Substation (AMS First in Korea), Received AM system orders for SK Airgas (154kV S/S), POSCO (154kV S/S), and Mozambique Utilities (EDM_Over 114kV 64 S/S), Received AM Solution orders for KEPCO and KRRI	2009	100MVA STATCOM
2017	Development of integrated ESS Control Solution, Gimje Substation 48MW ESS Station for Indoor FR Commercial Operation, PV Connection type ESS (Yeongheung 7MW / 18MWh, Haenam Green 8MW / 33MWh, Samcheonpo 12.5kW / 32MWh, Totally 50.3MW / 160MWh installed)	2008	System-connected solar inverters (3kW, 50kW, 250kW), 1kW class PEMFC home generation systems, ecological 25.8kV 25kA Dry Air-Insulated Switchgear (DAIS) (first in Korea), 245kV 40kA Motor Direct Drive Mechanism (MDDM) GIS
2016	2MW ES PCS for KEPCO Frequency Regulation (KEPCO 3rd Project, Gimje Substation 48MW), Independent Island MG System (Gapado Island 3.25MW / 3MWh, Geochado Island 250kW / 500kWh), Outdoor Type 1MW PV PCS (UL Certification Achieved, CEC Efficiency 98%), 154kV Transformer / GIS Asset Management Solution (First in Korea), 315-400Fr, Induction motor (315Fr, 4P IE3 certificate), IE4 LS-SynRM 3.7kW	2007	154kV gas transformers, 2MW-class wind power system
2015	Energy Storage System for Wind Farm Integration (First in Korea, Yeongheung, 4MW PCS & 16MWh Battery), Energy Storage System for Energy Savings (Gyeongju, 1MW PCS & 2MWh Battery), 150MW class MMC STATCOM (KEMA type test certificate), IE4 Super Premium Synchronous Reluctance Motor Line up (less than 45kW)	2006	10MVA STATCOM, GIS partial discharge diagnosis system, Power transmitter class FACTS device core parts domesticized (first in Korea)
2014	Renewable energy Integrated MW-class Li-Battery Energy Storage System, 20MW class Voltage Source Converter HVDC system, 150MW class Multi-Modular type STATCOM	2005	750kW class wind power generation systems, 100kW class fuel cell PCS, 36kV 31.5kA GIS
2013	Battery Energy Storage System and Micro Grid for Off-Grid island IE 4 Super Premium Synchronous Reluctance Motor	2004	245kV 50kA class GIS (first in Korea), 25.8kV 25kA GIS (applicable size changed, first in Korea), 24kV 40kA 3000A GIS (first in Korea)
		2003	362kV 50kA GIS (first in Korea), 154kV 80MVA UPFC (FACTS) pilot plant (first in Korea)
		2002	Substation automation system, 300kV 40kA GIS
		2001	154kV 40MVA FACTS transformers, Interpolar condenser without capacitor, 170kV gas circuit breaker
		2000	Distribution digital protection meters
		1999	800kV ultra-high voltage circuit breakers, 765kV transformer device preventive and diagnosis system, 200kW gas engine heat combination systems, Package-type CNG filling systems, Nuclear power plant Q-class large-capacity motors, 362kV 63kA 8000A GIS (first in the world)
		1995	Gas turbine co-generator, railcar towing motors
		1992	765kV transformers (first in Korea)
		1987	170kV 31.5kA 1200A GIS
		1986	Amorphous transformer (first in Korea)
		1984	154kV phase-separation transformers (3ph 154kV 386MVA)
		1982	Nuclear power plant 345kV transformers (1ph 345kV 1187MVA / Bank)

STEEL WIRE TECHNICAL CENTER

The Steel Wire Technical Center was established in 1986 to develop leading-edge production technologies for tire reinforcement materials (steel cord, bead wire) and related products. Using the research technology it has accumulated over the years, it is leading tire weight reduction research with the application of ultra-high tensile strength steel cords and is endeavoring to develop new environmentally friendly products to reduce the use of tire materials that are harmful to the environment. The Steel Wire Technical Center underwent a large expansion of its advanced analysis equipment, pilot facilities, and researchers to enhance basic research and research capabilities in 2007. It has been operating technical centers in China and Vietnam for the timely application of new technologies as well as quick response to global customer requirements. Through industry-university cooperation and external research network, it is making continuous effort to secure the world's best technology providing competitive advantages to customers and new business technologies that will become a future growth engine.



Research Areas

Steel wire processing technology development

- Steel wire heat treatment technology
- Plating and surface treatment technology
- Wire Drawing Technology
- Mega high-tensile strength product manufacturing technology
- Cabling mechanism research

Tire-specialized research

- Ultra high performance tire (UHPT) reinforcements
- Low fuel consumption tire reinforcements
- Eco-friendly tire reinforcements
- Tire analysis and performance prediction technology
- Research on the characteristics of future vehicles and next generation tires

Steel wire application research

- Ultra-fine wire development
- Hose wire development
- Steel wire reinforcing communication cable development
- Special function wire development

Research Results

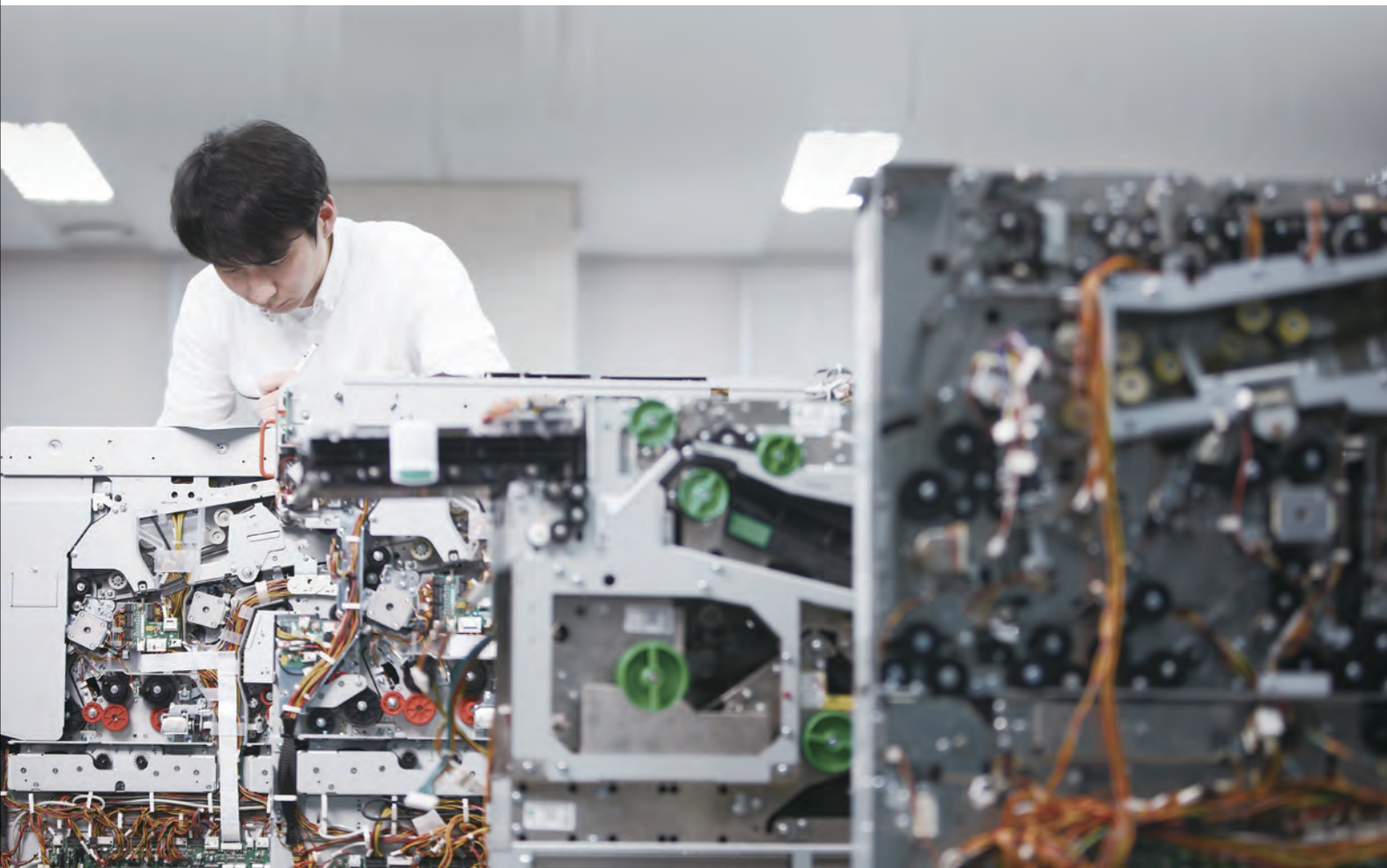
- 2020** Developed design technology for optimized condition of steel wire drawing process
- 2019** Developed precision-control heat treatment technology through a metal microstructure prediction program
- 2018** Developed steel communication cable center tensile wire / supporting wire
- 2017** Developed the Zinc coated Steel cord for eco-friendly tire, ultra-fine steel wire for diamond coated wire, and fine-diameter hose wire
- 2016** Developed the ultra-fine filament steel cord for LTR carcass
- 2015** Developed hybrid cord, a new concept tire reinforcements
- 2013** Established Chinese Steel Wire Technical Center, Developed high performance stranding machine
- 2012** Developed fine-diameter saw wire, and diamond wire, Designed and optimized bead wire manufacturing process in Vietnam plant
- 2011** Established Vietnam Steel Wire Technical Center, Designed and optimized the saw wire manufacturing process in Qingdao (China) plant
- 2010** Designed and optimized the steel cord production process in Vietnam

- 2009** Developed mono wire for ultra-light tires
- 2008** Optimization & designing of the steel cord production process in Nanjing (China) plant
- 2007** Designed and optimized the saw wire production process
- 2006** Developed UT (Ultra Tensile, 4000 Mpa) steel cord
- 2005** Developed recycling process of lubricants used in wet drawer of wire to reduce waste
- 2004** Optimization & designing of the steel cord production process in Qingdao (China) plant
- 2003** Developed a new steel cord production process improved brass plating
- 1999** Developed NT (normal tensile, 2850 Mpa), HT (high tensile, 3300Mpa), ST (super tensile, 3650 Mpa) steel cord
- 1998** Developed a new bead wire production process
- 1996** Developed technology that enhances the plating efficiency of brass
- 1987** Designed and optimized the tire reinforcement production process



TECHNOLOGY R&D CENTER

With Korea's largest R&D center for financial automation devices, Hyosung TNS boasts independent hardware and software development technologies to produce the best automated devices, terminals, and core modules. Since its establishment in 1983, the R&D center has not only succeeded in implementing currency-identifying technologies for various countries', but has also acquired global standard certifications for EMV, EPP, CEN, and UL, thereby helping to advance the development of financial information technology. The goal of the R&D center is to contribute to the safety and development of the financial service industry by introducing the world's greatest financial automation device technology.



Research Areas

- ATM / KIOSK development (Mechanism / Electronics / Software)
- Independent core innovative module development
- Element technical development (Control technology, Device technology, Circuit technique, Security technology)
- Mechatronics, New robotics technology development

Research Results

2021	Developed Digital Desk's Solution for Domestic Bank / Developed MVS (Multi-Vendor Software) for UK Market / Developed Robot Café Kiosk / Developed AGV(Automated Guided Vehicle) for Plant / Developed Eco-PAD KIOSK for Russian Market / Developed New BRM Module for Global Market / Developed New Linux Software Application for ATM / Enhanced TCR Software Competitiveness / Enhanced MoniManager Software Competitiveness / Developed New CE module and WinCE7.0 OS	2013	Developed Standard Hybrid ATM, Full Function New Branch Solution (Self Service Banking, Video Banking), Halo ATM, ATM with Global BRM (MX8200CL, MX8600), ATM specified for blind people, ATM software 'MoniPlus 2S' for ATM Multi-vendor usage
2020	Developed and Operated Digital Desk's H/W and S/W for Teller's convenience, Developed New Teller's Banking Machine's H/W and S/W for Teller's convenience, Developed New BRM Module for Domestic and Global Market, Developed New CSM Module Developed Managed Service for BRI bank in Indonesia, Developed Next AP Solution for Fintech and currency exchange service, Developed MV100 for Nigerian Market.	2012	Developed New Branch Solution (Self Service Banking, Video Banking), teller ATM (TCR), cash / check mixed media recycling module (BRM11), passbook issue module, banknote fitness sorting technology, OCR technology for banknote serial numbers, CEN safe series (Grade L, I, III, IV), ATM Software 'MoniPlus' - global security standard certification
2019	Developed Drive-Through ATM to reflect customer's needs for the U.S. Bank market, Developed Self Order Kiosk device and S/W for the Kiosk, Developed SCO (Self-Check-out) device for the large sized market, Developed EPP (Encryption Pin Pad) for global security standard PCI 5.0 certification, Developed ATM S/W for Windows 10 for customer certification, Developed and operated Moni-Manager S/W for MVS project for India, Developed Self Bank Kiosk (Digital Kiosk) S/W for Kook-min and Hana bank, Developed TCR MS500 S/W for Western Europe.	2011	Developed export-type check / cash deposit integrated module (CCIM), circulating ATM with Global BRM (8000A, 8000TA)
2018	Developed present BRM with differentiated functions to reflect customer's needs for the U.S. Bank market, Developed transit BRM that allows cash replenishment / retract without opening the safe for enhancing the cash management of branches, Developed CDU that miniaturized cash dispenser cassette of the U.S retail market and improved customer convenience, Developed CCIM that increases the capacity of cash storage to increase the actual operation time of the device, Developed the SW solution (WARP) improving ATM UI of banks and reflecting multi-vendor SW needs.	2010	New-generation High-End CDU, I-PBM (inkjet bankbook printer)
2017	Developed a new middle and high priced ATM 'MX2800SE' to expand the retail market, Developed Kbank Multi-ATM for the domestic market, Developed WARP UX / UI of the next generation ATM S/W platform based on Omni-channel, Developed an algorithm to detect soiled banknotes, Developed Dual CPU control technology, Developed Linux OS-based Linux ATM S/W supporting C/XFS specification	2009	Developed the new-generation circulating ATM with Korea's first BRM (Ubitus 8100), currency identification certification by Europe Central Bank
2016	Developed standard ATM "MX8600S, MX5600S" with improved security and performance, Developed an optimized branch solution "Mini-NBS", Developed "Micro ATM" to reduce customers TCO, Developed new high end ATM "MX7800 Series", Development of "MoniMobile" Retail ATM management mobile solution	2008	Developed the export-type cash deposit module (BNA), export-type check deposit module (BCA)
2015	Developed Full Function New Branch Solution (ShinHan Bank Digital Kiosk) for domestic market, new ATM line up for global market (MX7800 Series), New Branch Solution with Teller Cash Recycler (MS500SE), Mobile ATM Solution (MARS)	2007	Developed a new type of cash and check ATM (SCDP2), export-type, financially high-performing ATM (MX 7600 series), cash scanner sensing deposit machine (CSM)
2014	Developed Cash & Check Recycler Machine (CCRM), Teller ATM (TCR) Line of Products (Under / High Counter Types), New ATM for Retail Banking (NH2600SE, MX5200), Bitcoin ATM, Banknote Validation Using Multispectral Imagery, Metal Detection Mechanism, Video Banking Solution.	2006	Developed high-performing drive-up ATM for the US financial industry, new banknote multifunctional ATM (T2 ATM)
		2005	Developed bill payment systems for export to Mexico
		2004	Developed bank statement printer (A4 Size) and wall-mountable type ATM
		2003	Developed wall-mountable-type and drive-up automatic cash dispenser and giro bill payer
		2002	Developed high-performing automatic teller machine (T1 ATM) and automatic cash dispenser for export to the US (MB 1500)
		2001	Developed desk-type automatic cash dispenser (NanoCash-3000)
		2000	Developed desk automatic cash dispenser (NanoCash-2000), VAN CD
		1999	Developed automatic cash dispenser for export to the US (MB-3000)
		1998	Developed automatic cash dispenser for export to the US (Mini Bank)
		1997	Developed export-type cash dispensing unit (CDU-M)
		1996	Developed circulating automatic cash deposit and dispensing machine (RATM) and branch server (Branch Processor)
		1995	Developed non-circulating automatic cash deposit and dispensing machine (ATM)
		1994	Developed cash and check dispenser (CD) and bankbook printer



Fulfilling and leading new Corporate Social Responsibility

Hyosung's sustainability management is to fulfill its economic, social, and environmental responsibilities based on its mission to create better lives for people by way of the best technology and management capability. Through communication and cooperation with various stakeholders such as customers, employees, suppliers, and local communities, we will continue to pursue corporate management that addresses domestic and overseas issues, and we will take the lead in creating a sound ecosystem that enables both companies and society to grow together.

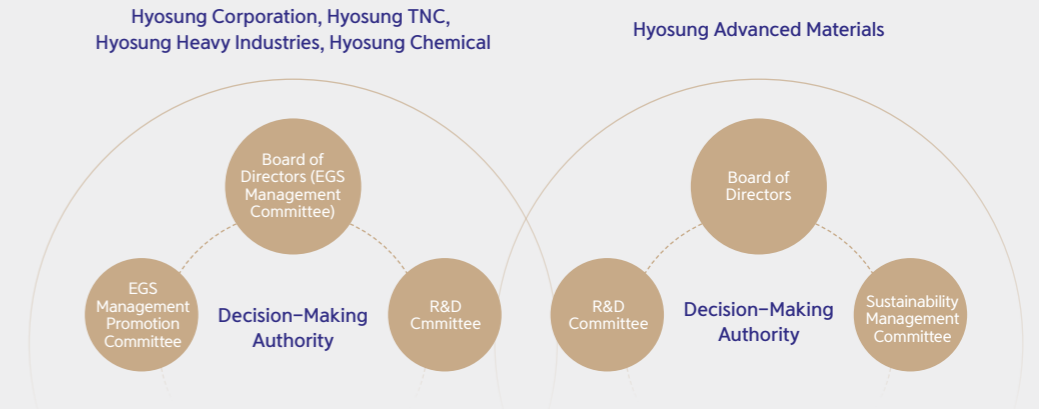
*Hyosung's efforts for sustainable management can be found in more detail in the "Sustainable Management Report" posted on its website (<https://www.hyosung.com>).

SUSTAINABILITY MANAGEMENT

- Climate Change Response
- Occupational Safety And Health
- Sustainable Supply Chain Management
- Customer Satisfaction And Product Responsibility
- Governance
- Ethical Management
- Human Resource Management
- Sharing Based Management

CLIMATE CHANGE RESPONSE

Recently, the government has recognized the seriousness of the climate change crisis, has strengthened adaptation measures against this crisis, and has enacted and announced the Framework Act on Carbon Neutrality and Green Growth to Cope with the Climate Crisis for the transition to a carbon-neutral society while revising the country's NDC (nationally determined contribution) upwards. In addition, as climate change emerges as an issue that governments around the world are paying attention to, it is becoming important for companies to come up with countermeasures. As a global company focusing on businesses that have a major impact on climate change, such as textiles, chemicals, industrial materials and heavy industries, Hyosung is making various efforts throughout its management to minimize its impact of climate change. In this regard, Hyosung and Hyosung Advanced have participated in the CDP, and since 2021, all its subsidiaries have reflected the carbon management system required by the TCFD recommendations and participated in the CDP, thereby disclosing carbon information. Consequently, Hyosung TNC obtained the Leadership A-grade and won the Carbon Management Special Award at the 2021 CDP Climate Change Korea Awards.



Reinforcement of the climate change system

In 2021, Hyosung expanded and reorganized its Transparent Management Committee, which is the governance committee within the board of directors, into the ESG Management Committee, which includes environmental and social parts. It is responsible for deliberation on ESG-related policies including climate change, goal setting and risk management, and investment and activity plans. Hyosung TNC, Hyosung Heavy Industries, and Hyosung Chemical also reorganized their existing decision-making authorities, the EHS and CSR committees, in the second half of 2021, and established the ESG Management Promotion Committee under the CEO which is submitting or reporting major issues to the board of directors. The top decision-making authority for the climate change issue at Hyosung Advanced is the Sustainability Management Committee supervised by the CEO, which is operated more than once a half year.

Green Management Vision 2030

Hyosung has established Green Management Vision 2030 to become an eco-friendly company leading the way to a better life for mankind. We have set four goals: reducing greenhouse gases, developing eco-friendly technologies and expanding markets, creating an eco-friendly corporate culture, and enhancing stakeholders' trust. We are also proposing details for each goal and establishing and operating a company-wide climate change response strategy.

Becoming an eco-friendly company leading the way to a better life for mankind	
Reduction of emissions by 14.5% by 2030 compared to 2018	Securing of emissions offsets / Operation of a carbon asset management system / Trading of greenhouse gas emissions rights / Energy savings and introduction of renewable energy facilities
Market reform and business expansion through development of eco-friendly technologies	Expansion of hydrogen business, an eco-friendly clean energy / Reinforcement of energy storage system (ESS) business capabilities / Expansion of eco-friendly products / Renewable energy business
Creation of a corporate culture through the establishment of eco-friendly infrastructure within the group	Advancement of water quality and air pollutant management systems / Reduction of water use and waste discharge / Eco-friendly mutual cooperation and mutual growth with partners / Expansion of the purchase of eco-friendly products
Enhancement of stakeholder trust through transparent disclosure of information	Expansion of eco-friendly technology and corporate certifications / Promotion of cooperative energy conservation tasks for coexistence with local communities / Participation in local natural purification activities / Participation in the CDP and environmental information disclosure system

*CDP: Carbon Disclosure Project

Hyosung's Eco-Friendly Portfolio



"Regen," the rebirth of waste fiber and waste PET bottles

"Regen" is a Hyosung TNC product created by extracting and recycling the usable ingredients of waste PET bottles, a first in South Korea. It reduces the amount of landfilled waste as well as carbon dioxide emissions.

We have also expanded our recycling of resources with "MIPAN regen," a recycled nylon made with recycled yarn that is discarded in the process of manufacturing existing nylon yarn.



"Lyocell tire cords" using biomaterials

"Lyocell tire cords," which were developed by Hyosung Advanced using cellulose extracted from wood, emit about 30% fewer greenhouse gas emissions than rayon or nylon tire cords. In addition, the raw material extracted from the wood and used in this product hardly generates any harmful substances such as carbon disulfide or hydrogen sulfide during the manufacturing process, and can thereby prevent air pollution and water pollution.

Hyosung's eco-friendly portfolio is deeply entwined with our daily lives.

A "Hyosung-oriented daily life" in terms of food, clothing and shelter is eco-friendly in both results and processes.

"POKETONE," a new eco-friendly material

"POKETONE," a core material representing the eco-friendly plastic market, uses carbon monoxide, the main cause of air pollution, as a raw material. It is attracting attention as an alternative material for children's food trays. In addition, its application is expanding to various sectors such as building materials, engineering products, automobile products, household necessities, and leisure goods.



Charging system for co-friendly, clean-energy hydrogen

Hyosung Heavy Industries is anticipating hydrogen charging systems in the changing mobility market as a means of achieving carbon neutrality. We currently supply charging systems mainly for passenger vehicles and commercial vehicles, but are planning to supply dedicated charging systems with a focus on the development of hydrogen fuelization for heavy machinery such as excavators and forklifts. In addition, we are building a liquefied hydrogen plants to increase the efficiency of hydrogen storage and transportation.



OCCUPATIONAL SAFETY AND HEALTH

Occupational safety and health must be taken into consideration in complex industrial sites where various workers work. In particular, it is necessary to understand what factors threaten workers and continue efforts to create safe and healthy workplaces. This is because the sustainability of a company can increase only when it creates an environment in which its workers can work safely and healthily. Hyosung has established a safety and health management policy and encourages all employees to comply with it. In addition, we have established detailed implementation tasks for implementing our management policy and evaluate them regularly. By reflecting these evaluation results, we are implementing safe workplaces for everyone.



Company-wide safety and health management policy

The Hyosung Group places occupational safety and health as its top priority in corporate activities, and all employees comply with the safety and health management policy that we have established to realize a pleasant and safe accident-free workplace. We are also sharing this policy with internal and external stakeholders.

To prevent the loss of life and property, we have established and implemented a safety and health environment management system and achieved an accident-free workplace, and we are striving to improve the health of all employees.

We regularly check and improve the control system and implementation status so that the safety and health environment can be continuously developed.

We minimize emissions of substances that can impact the environment and are actively promoting the reduction of resource and energy use.

Our employees and partners innovate the safety and health environment system at a global level through continuous education, training and competency development, and regularly evaluate management performance.

We strictly comply with domestic and foreign environmental safety laws and agreements, and maintain symbiotic cooperative relations with our partners, and we are strengthening our sustainable management system by preserving the environment and taking part in social contribution activities for local communities.

Reinforcement of the safety and health system

Hyosung TNC has established four core tasks along with a safety and health management system to realize zero-accident/disaster workplaces. In addition, it has established and distributed occupational safety principles and eight safety rules. Hyosung Heavy Industries has established four core tasks to create a site-oriented safety environment. In particular, it holds weekly meetings with employees of partners on issues related to safety and health, thereby protecting the safety of their executives and employees and building trust between management and employees. Hyosung Advanced has established a TFT under the direct control of the CEO to reorganize the safety and health disaster system so that the entire company can enjoy the same safety and health disaster system. It has also established goals and achievement plans, and faithfully implements them. To consolidate its safety-first work rights system, Hyosung Advanced is making efforts to supplement deficiencies to improve effectiveness and to prevent safety accidents from occurring, not only for full-time employees but in the entire workplace. Hyosung Chemical holds a monthly meeting of its EHS Committee supervised by the CEO to prevent safety accidents in the workplace, and is conducting a campaign to develop a safe workplace centered on the site in order to prevent accidents in advance and establish an on-site safety culture.

SUSTAINABLE SUPPLY CHAIN MANAGEMENT

If large companies and SMEs pursue short-term profit maximization, the survival base of SMEs will be weakened, which may lead to a crisis of the corporate ecosystem. Therefore, a mutual cooperation system between companies from a mid- to long-term perspective needs to be built. The supply chain is becoming increasingly important for securing the sustainable global competitiveness of companies, creating sustainable growth engines and jobs, and laying the economic foundation for a fair society. Hyosung has established and is systematically managing a mutual growth promotion system for coexistence with its partners. In addition, we conduct evaluations based on fair and transparent standards when selecting partners to manage their risks, and are establishing and operating practices to create a fair-trade order.



Reinforcement of mutual growth

Mutual growth promotion system

With a common goal based on the recognition that we are bound together by a common destiny, the Hyosung Group is striving to create the future together with its partners. We are working to establish a systematic mutual growth system based on our philosophy that the competitiveness of our partners is the driving force behind company growth.

Partner management organization system

In the Hyosung Group, the purchasing departments are responsible for managing all partners, and take into account the characteristics of the supply chain for each workplace. Companies which have many partners due to the nature of the industry have established and operated mutual growth teams. In this way, the Hyosung Group listens to its partners' difficulties and communicates with them and provides suggestions so that mutual growth can be achieved smoothly. In addition, the Hyosung Group is supporting its partners to participate in joint research involving the Hyosung Technology Institute and the Heavy Industries Research Institute to strengthen their technical capabilities and competitiveness.

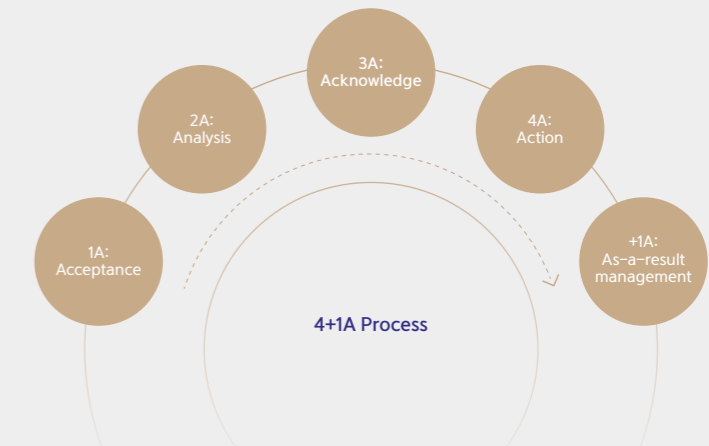
Mutual growth support program

<p>Financial support</p> <ul style="list-style-type: none"> • Payment for deliveries in cash • Financial support for overseas expansion • Financial resources for mutual growth 	<p>Support for site improvements</p> <ul style="list-style-type: none"> • Support for ICT-QC (smart factory) • Support for improving energy savings • Improvement of the safety and working environment 	<p>Technical support</p> <ul style="list-style-type: none"> • Performance sharing • Technical data bailment system • Joint R&D and joint patent applications • Rewards for outstanding partners
<p>Support for productivity improvements</p> <ul style="list-style-type: none"> • Consulting on productivity improvement • Support for energy companion projects and partner PCs • Factory tour program • Support for COVID-19 prevention supplies 	<p>Management support</p> <ul style="list-style-type: none"> • Management doctor system • Support for training places • Support for overseas training • Support for ESG consulting 	<p>Support for secondary partners</p> <ul style="list-style-type: none"> • Mutual growth agreements with primary and secondary partners • Industrial innovation movement • Mutual payment system • Secondary partner payment monitoring



CUSTOMER SATISFACTION AND PRODUCT RESPONSIBILITY

To carry out customer-centric management, fundamental customer problems must be resolved beyond simply collecting and responding to the customer's voice, and the customer's opinion must be constantly reflected in our business. To that end, activities to internalize the processes for deriving improvements by listening to and analyzing customer voices must be spread from home to abroad across all businesses. The Hyosung Group is carrying out VOC activities based on its 4A+1A process. To meet our customers' needs, we have improved our capability to understand the "real" VOC, and are thereby developing strategies and producing results to achieve a competitive advantage. In particular, we aim to create substantial results by systematically managing strategic progress through the implementation of strategic challenges. We thoroughly analyze the factors that influenced the outcome of a task performed and link it to the improvement of the next activity so that VOC activities can continue to evolve. Furthermore, we are promoting VOC activities by setting the main activity directions, such as eradication of quality problems, discovery of new businesses, and transition and expansion to high-growth market areas.



Reinforcement of customer-centric management

C-Cube execution system

In 2019, the Hyosung Group introduced C-Cube activities in which all employees collect VOC data and reflect it in their management activities to strengthen customer-centric management. The goals of C-Cube activities are to collect VOC (voice of customer), VOCC (voice of customer's customer), and VOCO (voice of competitor) information three-dimensionally and to produce results by organizing the entire company as if it were a "single merchant" through systematic implementation of the 4A+1A process.

Reinforcement of the global C-Cube system

Participation in Intertextile Shanghai 2021

Hyosung TNC participated in Intertextile Shanghai 2021 in order to communicate with global customers. At Intertextile Shanghai, the world's largest trade fair, where more than 4,000 companies from 30 countries participate each year, Hyosung TNC actively promoted its global C-Cube activities by showcasing a number of highly functional yarns with outstanding activity performance, including yarn for home active wear that can be worn comfortably at home and yarn for the outdoor look that is becoming more popular year by year.

Discovery of new markets and entry into new markets

Hyosung Heavy Industries is actively developing new overseas markets by listening to the real voice of its customers. In particular, it collaborates with local corporations where our customers are located to identify the current status of the market and competition and secure opportunities for entry. After identifying the Russian-style nuclear expansion plan and supply structure of various countries such as India, Turkey, Hungary, Egypt, Bangladesh and Russia through our corporation in Moscow in 2021, as well as the needs of customers that the local electric motor manufacturers could not meet, with the strength of Hyosung Heavy Industries, we won orders to supply motors to nuclear power projects in Turkey and Bangladesh.

Reflection of the eco-friendly needs of customers

Provision of eco-friendly solutions

Hyosung Advanced is expanding the use of polyester yarns made from sugar cane-derived ethanol in response to inquiries from partners about the possibility of reducing carbon emissions for different products. In addition, it has expanded the acquisition of carbon labeling certification, which we owned only for tire cords, to all business divisions, proactively calculated greenhouse gas emissions for each major product, and have been verified by a third party.

Supply of optimized design

To maximize the production efficiency of customers, Hyosung Chemical designs products optimized for its customer's facility conditions and strives to enhance customer value by reducing defect rates and minimizing condition changes. In addition, it is proactively responding to the current situation in which restrictions on the use of environmentally regulated substances are being strengthened in response to eco-friendly measures, and is supplying customers with the relevant regulated substances that have replaced other raw materials.



Hyosung's smart factory

In the era of the 4th industrial revolution, the importance of production and management innovation is being emphasized. Based on the establishment of a smart factory, Hyosung is being reborn as a global company by simultaneously advancing its quality and production efficiency to the cutting edge

Global Monitoring System

Hyosung TNC Co., Ltd., Facility monitor and big data analysis

Hyosung TNC is upgrading its spandex factories located in China and Vietnam to smart factories. It monitors the status of global factories in real time, manages quality, and operates a next-generation production environment to produce products of identical quality. In addition, it collects, analyzes, and controls data in all sectors, from raw material import to production and shipment.



Operation Rate Management System

Hyosung Advanced Co., Ltd. Operation rate management system

Since 2017, Hyosung Advanced has been working with all of its factories to build smart factories that ensure the highest productivity and quality through automation and intellectualization of production activities in order to be agile and responsive to rapidly changing market environments and technological developments. Since applying IoT (Internet of Things) technology to our corporation in Vietnam in 2020, we automatically collect facility data and calculate working hours for each inoperable factor. In addition, by analyzing the movements of on-site workers, we are contributing to an increase in production by improving the operation rate.

Manufacturing Execution System

Hyosung Heavy Industries Co., Ltd. Integrated production management system

Hyosung Heavy Industries is building a DX operation by implementing a smart factory based on its MES (manufacturing execution system) and the IoT (Internet of Things) at its factory in Changwon. It is expected that the smart factory will improve production efficiency by identifying the operation status for each process and changes in operation plans for each worker in real time and by utilizing the data collected and analyzed in real time for quality management, process management, and facility management.



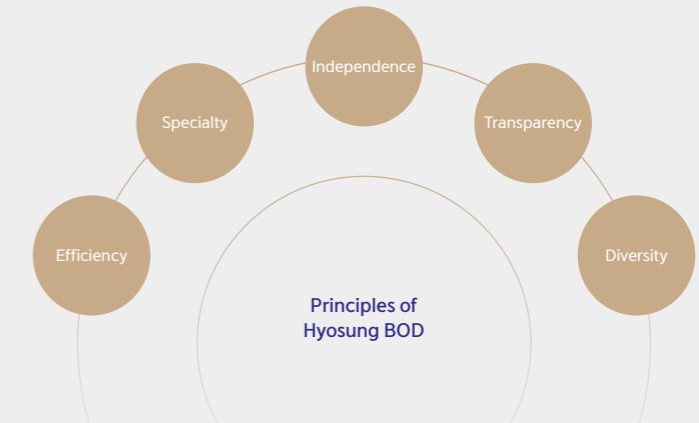
Resource Management System

Hyosung Chemical Co., Ltd. PMS, QMS, VAS

Hyosung Chemical has built a PMS (process monitoring system), QMS (quality monitoring system), and VAS (visual analytics system) to connect all manufacturing-related resources in real time and make decisions based on the collected data. In addition, to actively utilize the smart factories that have been built, it selected core issues after deploying specialized personnel to each factory. Based on this, Hyosung Chemical is working with Hyosung ITX to analyze the selected tasks and improve processes.

GOVERNANCE

Hyosung is striving to be the first to present valuable changes under the mission of 'enhancing and enriching the quality of life for humanity with its leading technology and management capability'. As the highest decision-making body in Hyosung, the Board of Directors (BOD) appoints directors with diverse background and expertise based on five main principles, guaranteeing transparent and independent decision-making as well as checks and balances for efficient management activities. In pursuit of sustainable growth and protection of shareholder rights, the BOD reviews and decides on matters prescribed by law or corporate articles of association, matters delegated by the general meeting of shareholders, or high-priority matters related to basic company policy and business operation. It also aims to improve interests of the stakeholders including shareholders.



Board Members and Operation

Reinforcing Independence and Transparency through External Board Members

Hyosung appoints majority of board members from outside directors and appoints an outside director as the chair of the Board of Directors (BOD) in order to strengthen independence and transparency of the board. The candidates are verified and appointed from the Outside Director Candidate Nominating Committee, which ensures the BOD to have checks and balances toward the management.

All members within the Audit Committee are comprised of outside directors. In the ESG Management Committee (Transparent Management Committee, previously) and the Outside Director Candidate Nominating Committee, outside director ratio should be over 2/3, and an outside director should chair each committee to ensure independence and transparency.



Strengthening the Board Expertise by Appointing Outside Directors from Diverse Backgrounds

Hyosung has appointed a field-specific expert to oversee the business management and participate in the BOD as the representative director to make strategic decisions and practice responsible management in accordance with the changing environment. The BOD of Hyosung consists of outside directors including a female director, and they are experts in their own fields such as society, economy, finance, law, technology and environment. The Audit Committee, in particular, includes one or more experts in finance and accounting.



Board Members and Operation

Efficient BOD Operation through Committees

Hyosung has established committees within the BOD following the related laws and regulations for prompt and efficient decision-making. Some of the board's authority is delegated to such committees so that experienced professional directors review the issues and treat them accordingly. Roles of the Committees in operation are as follows.

Committees	Roles
Management Committee	Review and make resolutions on agenda delegated by the BOD, including business principles and investment, in accordance with the articles of association and the Board regulations.
Audit Committee	Audit-related matters, including audit plans, review on suitability of important accounting standards and feasibility of accounting changes, evaluation of internal control system, selection and evaluation of external auditors, etc.
Outside Director Candidate Nominating Committee	Validate independence from the company, qualifications, and competencies of outside director candidates and recommend the suitable candidates to the BOD.
ESG Management Committee	Proceed preliminary deliberation on major business matters including division, merger, business transfer, as well as shareholder rights and shareholder return policy. Review and make decisions on large-scale internal transactions under the Fair Trade Act, ESG-related policies, target and risk management, and investment plans.

Fair and Transparent Evaluation and Compensation

Each year, directors are evaluated based on their specialty in corporate business and technology as well as performance of the Board activities, and the following result is discussed in the BOD. The compensation of the Board is approved in the general meeting of shareholders based on such evaluation, and is provided within the compensation limit of director. The retirement allowance of the BOD shall be paid in accordance with the provisions on retirement allowance for executives which was determined by the resolution of the general shareholders' meeting.

Shareholder-friendly management and protection of rights and interests

Hyosung has returned its management performance to shareholders by paying year-end dividends for 16 consecutive years from 2006 to 2021. In addition, to secure time to protect our shareholders' rights and interests and deliberate on agendas, we conduct shareholder-friendly management by announcing the general meeting of stakeholders 17 to 22 days in advance and allowing shareholders to exercise their right to propose certain matters in writing or via electronic documents six weeks before the meeting is held.

To enhance the understanding and credibility of shareholders, Hyosung regularly announces its results and regularly holds the NDR (Non-Deal Roadshow) for institutional investors in South Korea and Asia, thereby providing IR (investor relations) data that meets its stakeholders' demand for information. In addition, Hyosung establishes and complies with separate internal control-related norms to prevent insider trading and self-dealing among management and controlling shareholders.

Board Members

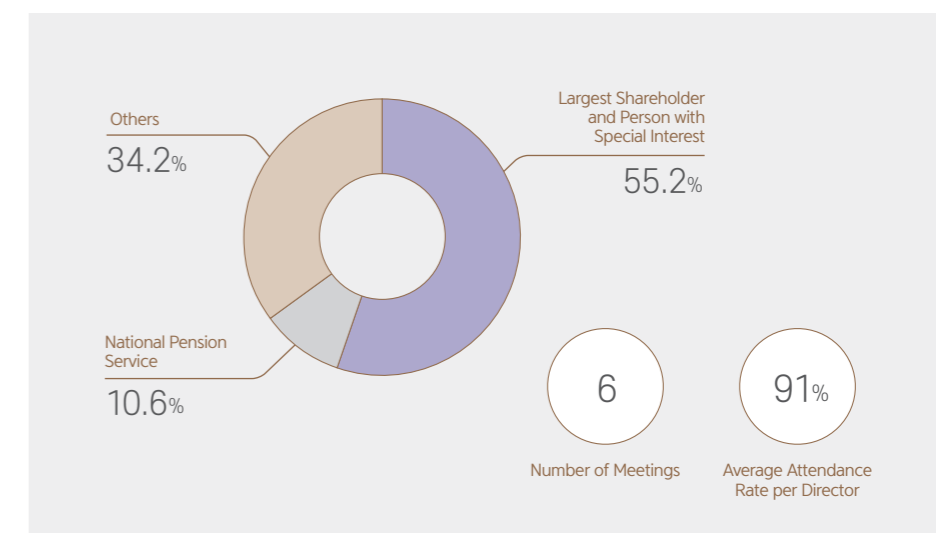
The Board of Directors (BOD) consists of directors who are appointed in the Shareholder's meeting, and is comprised of 3 standing directors and 6 outside directors. Standing directors are nominated by recommendation of the BOD. The candidates are nominated through a separate resolution process from the Outside Director Candidate Nominating Committee. Relevant information is provided to shareholders through reference materials disclosed prior to the shareholders' meeting and announcement of convening the shareholders' meeting. The resolution is approved by shareholders on the day of the shareholders' meeting.

Board Operation

In accordance with the Article 6 of the Regulations on the BOD Operation, regular board meetings shall be held once in each quarter by principle, while temporary meetings shall be convened whenever necessary.



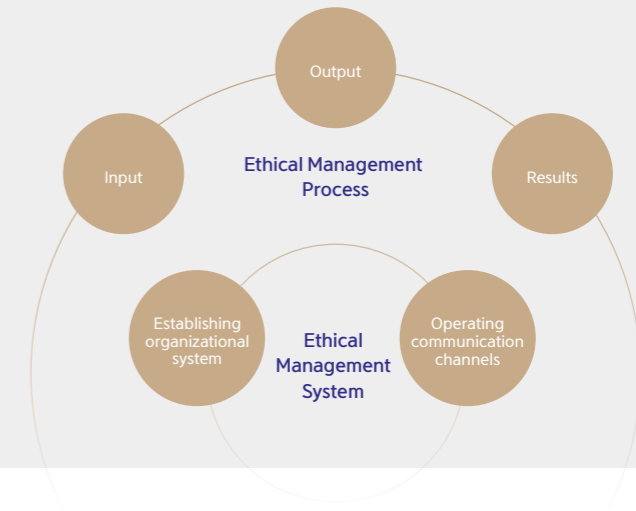
Shareholders Status & Status of the BOD Meetings



※ As of December 2021

ETHICAL MANAGEMENT

Hyosung strives to internalize ethical management to facilitate appropriate corporate culture. Based on 'Honesty and Trust', our core values of ethical management, we have prepared the Code of Ethics and the guidelines to practice it. The Code of Ethics and the guidelines are regularly reviewed, and we are trying to empower related organizations and prepare process to facilitate them.



Ethical Management System

Establishing Organizational System for Ethical Management

Hyosung has set up a legal compliance team, directly under the CEO, to better proceed with ethical management activities. In addition, ethical management personnels are designated in each department to support the legal compliance team, and internal auditors are appointed to monitor overall business management.

Ethical Management Communication Channel

Hyosung is operating 'HR Counseling Centre' and 'Grievances Procedure' to provide employees a counseling service on unethical behaviors and grievance. Such counseling can be both face-to-face or online to provide confidentiality of the employees.

Awareness Building and Training for Ethical Management

Awareness Building and Training for Ethical Management

All new Hyosung employees sign 'Pledge of Practicing Ethical Management' and 'Pledge of Prohibiting Solicitation and Bribery,' proving their commitments to the Code of Ethics and Guidelines. When we sign a contract with a new supplier, we also encourage the supplier to make a pledge to practice ethical management and establish a code of conduct to facilitate awareness of ethical management. We also make and distribute promotional videos and magazine-type publications in an on-line corporate platform.

Internal Monitoring and Follow-up Management

Hyosung conducts audits on overall business management, carries out on-site field work, investigates reported cases, and checks technology and product quality. The anonymity of auditees and reporters is guaranteed to prevent any unfair treatment or disadvantage toward them.



HUMAN RESOURCE MANAGEMENT

Hyosung has established measures to support employee's work-life balance and create a desirable organizational culture to enhance their concentration on work and job satisfaction. Additionally, our family-friendly management plays an important role in making employees and their families happy together with Hyosung. We also receive employees' feedback to create a pleasant working environment and corporate culture, further contributing to organizational innovation of the company. To enhance both internal and external communication, diverse communication channels are in operation, including 'Conversation with the Top Management', two-way communication through the internal bulletin board, as well as customer outreach channels.



Expanding Organization Culture Activities

Conversation with Top Management

The CEO of Hyosung holds meetings to directly explain and share the company's major achievements, issues and policies to executives and team leaders. During the meeting, a Q&A session is prepared where top management members and employees can communicate candidly, thereby strengthening company-wide communication and management transparency.



Team Building Activities (HOT, Hyosung One Team)

Hyosung is operating a team building program, called Hyosung One Team (HOT), so that all teams can exert the best capabilities based on communication and cooperation. Through this program, participants can reflect on their team culture, discover underlying problems and conceive countermeasures together, using it as an opportunity to make progress forward.

Proud Hyosung-er Award

The Proud Hyosung-er Award is awarded every quarter or year to the executives or employees who have achieved outstanding performance contributing to company's growth and development. Winners are selected in the sectors of marketing, technology, research and management support, and monetary incentives and promotion-related advantages are given as a reward.





Work and Life Balance

Family-friendly Management

Hyosung endeavors to build a family-friendly culture within the company that encourages employees and their families to participate and communicate with us, for our goal of becoming a happy company. To that end, we have implemented various programs for employees and their families as well as maternity protection policy

Maternity Protection Policy

Hyosung boasts a variety of maternity protection policies for pregnant employees. In addition to the 90 to 120 days of maternity leave that can be used before and after childbirth, the company also offers reduced working hours by 2 hours per day within 12 weeks after pregnancy or after 36 weeks of pregnancy. In addition, the company guarantees maternity leave and supports medical expenses in case of miscarriage or complication. After giving birth, childcare leave can be used within one year, or a reduced working hour system of 15 to 30 hours per week can be arranged.

Workplace Daycare Centers

In order to relieve the childcare burden of working parents and to further support a work-life balance, we are running in-house daycare centers in the Mapo, Changwon and Ulsan offices. We ensure the best childcare environment in the centers by regularly conducting inspections for toxic substances ensuring reliable childcare and high-quality education by teachers from professional childcare service agencies.

Flexible Working Arrangements

Hyosung complies with legal working hours (52 hours per week) and supports flexible working arrangements to increase employees' productivity. There are optional working hours system and flexible working hours system, and overtime pay is given for extra working hours.

Implementation of refreshment leave and a designated holiday system

Through refreshment leave system, Hyosung encourages executives and employees who may find it difficult to take vacation due to factory operation schedules to use annual leave for a total of five consecutive days. In addition, Hyosung operates a designated holiday system that grants consecutive holidays using annual leave on bridge holidays, and in 2021, Hyosung adopted a total of eight days as designated holidays.

Reinforcing Communication

Internal Bulletin Boards, Blogs and Other External Communication Channels

Hyosung is operating communication boards such as 'Tong Tong Bulletin Board' and 'Wa-gle Wa-gle' in its company intranet so that all employees widely share business information and news and exchange their opinions. Tong Tong Bulletin Board serves as a communication platform across entire business units, with communicators from each unit putting posts along with photos to promote business activities.

Internal Bulletin Boards Operation status in 2021

<p>Tong Tong Bulletin Board</p> <p>437 posts</p>	<p>Wa-gle Wa-gle Bulletin Board</p> <p>262 posts</p>	<p>Proposals/questions</p> <p>297 posts</p>
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External Communication Channels

- 

Hyosung Official Facebook Page
<https://www.facebook.com/myfriendhyosung>
- 

Hyosung Official NAVER Post Page
<https://post.naver.com/hyosungpr>
- 

YouTube Channel - Hyosung TV
<https://www.youtube.com/channel/UCpR8UwUbf20GCWJy4hxCOdQ>
- 

Hyosung Group NAVER Blog - MY FRIEND HYOSUNG
<https://blog.hyosung.com>

Enhanced Communication Regarding Employee Relations

There are labor unions organized in the company. Each business unit transparently discloses management status of the company to its employees through regular briefing sessions or round-table meetings for each management-level.

HR Counselling Center

The HR counselling center is a communication channel to collect and directly deliver employees' work-related grievances to the executives including various issues such as sexual harassment, embezzlement, and personnel corruption.

SHARING-BASED MANAGEMENT

The Hyosung Group is carrying out social contribution activities with the vision of "a company that empowers beneficiaries to pioneer their own future through education and sharing." A consultative authority consisting of experts identifies what a community actually needs, finds eligible people to listen to the opinions of community members, and cooperates with NGOs and specialized institutions to establish mid- to long-term strategies. In particular, the Hyosung Group strives to ensure that support is not a one-off but sustainable, and to create a society where its beneficiaries can stand on their own feet in the long run. Furthermore, the Hyosung Group continues to make efforts to co-exist with local communities by strengthening social contribution activities related to its business.



Support for vulnerable groups at home and abroad

Support for independent livelihood of single mothers in Vietnam

In 2021, the Hyosung Group supported economic independence for 110 single mothers from the poorest and second-most poor in Thang Binh district, Quảng Nam province, central Vietnam. The Hyosung Group helped single-mother households earn long-term income and become independent by providing piggeries, swine, and livestock medical supplies to single mothers whose main income is from day labor.

Overseas Child Support Project

The Overseas Child Support Project is a social contribution program in which salary deductions voluntarily shared by the Hyosung Group's executives and employees are used for education, drinking water sanitation, environmental improvement and livelihood support for children in Vietnam. The company's matching grant amount is used for improvements such as classroom expansions, better drinking water, awareness-raising activities, and library construction in areas where eligible children live.

Support for health promotion projects for young girls in Rwanda

The Hyosung Group carried out activities to build "girl's rooms" and promote awareness of health and hygiene for female teenagers in Rwanda. We have built a menstruation hygiene management facility so that girls in Gisigara and Kamonyi, Rwanda, can live their school lives in a hygienic environment during their menstrual periods, and strived to raise awareness of girls' rights through education in the local communities.

Support for children with disabilities and non-disabled siblings

The Hyosung Group, along with the Purme Foundation, supports rehabilitation treatment for children with disabilities and education and psychological treatment expenses for their non-disabled siblings. In 2021, the Hyosung Group supported IT devices to provide learning support to non-disabled siblings who are in a welfare blind spot.

Creating Job Opportunities for Vulnerable Groups

Employment Promotion Program for Women from Vulnerable Group

In line with the government's job creation goal, we are promoting employment of women with experience and middle-aged women.

Sponsorship for Goodwill Store

Hyosung is sponsoring 'Goodwill Store', a social enterprise contributing to economic independence of vulnerable group by hiring them and using profits from donated goods for job creation and vocational training for the disabled.

Sponsorship for Eden Welfare Foundation

Since 2014, we have been sponsoring Eden Welfare Foundation, a social enterprise dedicated to job creation for the disabled. We have donated unused or malfunctioning computers and financed the cost of replacing lights in production facility and factory, helping the participants to work in a safe environment.

Culture and Art Sponsorship



Certification of Exemplary Institution Supporting Culture and Arts

Since 2015, Hyosung has been certified as an excellent institution supporting culture and arts by the Ministry of Culture, Sports and Tourism of Korea. The certification recognizes and approves model organizations and companies that proactively implement sponsorship activities in the sector of culture and arts. Hyosung has been recognized for continued support for culture and arts, including sponsoring Yeonwoo theater, cultural heritage activities for Changdeokgung Palace, and funding a musical show which is produced to prevent youth violence.

Selected as an excellent company for social contributions to cultural properties

The Hyosung Group has been appointed as a "Cultural Property Guardian" company since 2018 and has been striving to preserve and purify our beautiful cultural properties. In 2021, the Hyosung Group was selected as an excellent company for social contributions to cultural properties in recognition of its work promoting lighting and interior restoration projects in Daejeon and Huijeongdang in Changdeokgung Palace.

Sponsoring Art Activities for the Disabled

Support for Barrier-free Film Production

Since 2018, we have sponsored the production of two barrier-free films each year and donated the voices of our employees. Barrier-free films provide on-screen audio commentary for the visually impaired and sound, music, and subtitles for the hearing impaired.

Sponsorship for Seoul Art Space Jamsil

In order to set up a firm foundation of creative visual arts by the disabled, since 2018, we have been sponsoring expenses of creating art works as well as exhibition costs for the resident artists in Seoul Art Space Jamsil.

Supporting Patriots and Veterans

Support for National Veterans

Housing Support for Veterans

Since the first donation in 2012, we have been working with many companies to improve the residential environment for people of national merit for 9 years.

AI care robot support for veterans

In 2021, the Hyosung Group provided AI care robots to a total of 40 elderly men of merit living alone who were experiencing restrictions in face-to-face activities due to Covid-19. The doll-shaped AI care robots support elderly persons 24 hours a day with daily life management, meals, medication, and hospital appointment notifications. Through this program, the Hyosung Group became the only company to win the Veterans Culture Award from the Ministry of Patriots and Veterans Affairs.

Sharing activities by workplace

Support for welfare benefits for soldiers

Since 2017, the Hyosung Group has provided the Army 1 Corps with reading cafes as part of the "Building barracks, reading books" program. In 2021, the Hyosung Group provided laundry cafes for the welfare benefit of army soldiers. The laundry cafe is a space designed for soldiers to do their laundry and take care of personal maintenance in a comfortable and pleasant environment. This helps soldiers relieve stress and boosts morale by improving military service and welfare conditions.

The Hyosung Group is promoting social contribution activities specialized for the local communities in which each workplace is located to develop these communities and create social value.

<p>Hyosung Co., Ltd. Anyang</p> <ul style="list-style-type: none"> • Campaign to clean up the environment (one river per company) • Donation of mask fabric by Anyang factory 	<p>Hyosung TNC Co., Ltd. Ulsan and Gumi</p> <ul style="list-style-type: none"> • Implementation of an academic-industrial cooperative scholarship • Volunteer activities during busy farming season (one rural area per company) • Cleanup activity (one graveyard per company) • Sharing the kimchi of love in Gumi • Santa Claus Expedition of the Green Umbrella Child Fund Korea in Gumi 	<p>Hyosung Advanced Co., Ltd. Ulsan and Jeonju</p> <ul style="list-style-type: none"> • Implementation of an academic-industrial cooperative scholarship • Volunteer activities during busy farming season (one rural area per company) • Volunteer activities at "Hoseong Nursery School" • Support for a girls' high school scholarship in Jeonbuk • Environmental cleanup activities (one trail per company)
<p>Hyosung Heavy Industries Co., Ltd. Changwon</p> <ul style="list-style-type: none"> • Implementation of "Junior Engineering Camp" for elementary school students • Hyosung Mini Library in Shinwol and Punggho elementary schools 	<p>Hyosung Chemical Co., Ltd. Yongyeon, Gumi, Oksan</p> <ul style="list-style-type: none"> • Commission of members of the Local Community Support Council and implementation of volunteer activities • Sisterhood relationship activities (one rural area per company) • Cleanup activity (one graveyard per company) • Sharing the kimchi of love in Gumi • Santa Claus Expedition of the Green Umbrella Child Fund Korea in Gumi • Support and volunteer activities for facilities in the local community • Cemetery cleanup at the National Cemetery 	





Companies committed to enhancing customer value stand out in global competition

Hyosung exports over 70% of its products overseas and boasts a global manufacturing system consisting of 32 production entities in 12 countries worldwide.

The company will continue to strengthen its global management abilities in marketing, production technology, and service across all business areas to stay ahead in the fierce global competition.

ABOUT HYOSUNG

• [Brief History](#)

• [Business Results](#)

• [Global Network](#)

BRIEF HISTORY

We are marching with a pioneering spirit

Hyosung has played the role of a dynamic locomotive behind the Korean economy. As an important part of the Korean infrastructure industry, Hyosung has overcome numerous trials and difficulties and has always served as Korea's partner during the country's economic growth.



Corporate History

- 2022** Hyosung Advanced Materials Vietnam acquired steel cord/bead wire carbon labeling certification. / Hyosung TNC joined the trillion club in operating profit.
- 2021** Hyosung won the 22nd Veterans Culture Award from the Ministry of Patriots and Veterans Affairs. / Hyosung was selected as an Excellent Enterprise for Social Contributions to Cultural Heritage. Hyosung Advanced Materials started operating an additional line for aramid at its Ulsan plant. / Hyosung TNC won the Grand Prize in the Environment Awards hosted by the Seoul Metropolitan Government. / Hyosung and Hyosung Advanced Materials won the CDP's Carbon Management Sector Honors. / Hyosung Heavy Industries signed an investment agreement with Linde Group for a joint venture (JV) to promote the liquid hydrogen business.
- 2020** Sold off Hyosung Capital / Obtained the highest grade for its global climate change response / Constructed a next-generation smart factory solution with SAP / Re-certified as an excellent institution sponsoring culture & art / Established Korea's first liquid hydrogen fueling station / Signed an MOU for investing in expanding the aramid production factory in Ulsan / Signed an MOU for a liquid hydrogen project with The Linde Group
- 2019** Completion of Conversion to Holding Company System, expansion of Jeonju Carbon Fiber Plant, establishment of Production Technology Center, Hyosung TNC began operations at a spandex plant in India, Hyosung Heavy Industries acquired an ultra-high voltage transformer plant in Tennessee, U.S.A.
- 2018** Commencement of Construction for the India Spandex Plant and Vietnam Bà Rịa-Vũng Tàu PP/DH Plant, establishment of Vietnam Quảng Ninh Tire Cord Plant, Hyosung is restructured into a holding company and four operating subsidiaries
- 2017** Built an additional tire cord plant in Vietnam, signed MOU with Vietnam to build a propane dehydrogenation plant, a PP plant, and a LPG storage facility
- 2016** Completed GIS plant construction in India began Quzhou NF₃ plant construction in China, and completed the construction of an automotive floor carpet factory in Qingdao, China
- 2015** Completed Yongyeon Polyketone and DH-2 plant construction, established Jeonju Carbon Specialized Venture Training Center, established Hyosung Dong Nai Corporation, obtained Korea's first STATCOM orders from India and Panama
- 2014** Supplied carbon fibers for Hyundai Motor's future concept cars, received a \$100 million order for a substation from Algeria, and opened Jeonbuk Creative Economy Center and Sebitseom.
- 2013** Won a project for a PV power plant in Mozambique, hosted the GWP declaration, initiated the Hyosung Volunteer Group for Sharing, commercialized carbon fiber and completed a carbon fiber plant in Jeonju, and succeeded in the world's first commercialization of an advanced material, polyketone
- 2012** Concluded a contract for a power network in Qatar, added TAC film operations, and nominated as national project developer for offshore wind power 20M electric voltage-type HVDC
- 2011** Brazil Spandex plant completed, concluded a long-term steel cord supply contract with Goodyear and acquired two global plants, and acquired Global Safety Textiles (GST), a world-renowned airbag textile supplier
- 2010** Completed a steel cord plant in Vietnam, concluded a Spandex plant construction MOU in Brazil, concluded a business contract to set up a power network in Qatar, and developed Korea's first high-performance carbon fiber
- 2009** Announced Hyosung Way, completed the aramid fiber plant, TAC film plant and merged with Star Lease, Inc., to establish Hyosung Capital, set up 2MW / 750kW wind power generation systems, acquired international certification by DEWI-OCC, launched Hyosung Toyota, acquired GRS certification for ecological recycled yarns
- 2008** Turkey Spandex plant completed, acquired China Nantong Youfang Transformers Ltd., and acquired Chin Hung International Inc.
- 2007** Yongyeon NF₃ Plant completed, Vietnam Spandex/tire cord plant completed, PET sterilized filling facility newly constructed, solar plant #1 completed, Hyosung recorded revenues of 5 trillion won
- 2006** Concluded contract with Goodyear for long-term tire cord supply and acquisition of four global plants, acquired Agfa photo production facility in Germany, acquired Nantong Youfang Transformers Ltd. and Dongkuk Trading's China Spandex plant
- 2005** Concluded a long-term steel cord supply contract with Michelin and acquired a plant in the United States, and completed a Nylon film plant in Jiaying, China
- 2004** Spandex plant completed in Zhuhai, China, distribution transformer plant completed in Baoqing, China, tire cord plant completed in Jiaying, China, concluded contract with Northwest Power Network Corporation of China for ultra-high voltage circuit breakers and added nylon film plant to Gumi Plant 1
- 2003** The Class Hyosung Corporation established, Hyosung Spandex (Guangdong) Co., Ltd., established, Hyosung Thin Film (Jiaying) Co., Ltd., established
- 2002** Concluded a long-term tire cord supply contract with Michelin and acquired a plant in the United States, Aerocool selected as one of the world's best products
- 2001** Adopted ERP, an advanced management system, China Spandex plant completed, Signed long-term PET bottle supply contract with Beijing Coca-Cola
- 2000** Gumi Spandex plant completed
- 1999** Hyosung Computer received KT Mark for ultra-high pressure gas insulating switch and polyester yarns (Aerocool)
- 1998** T&C, Trading, Living, and Heavy Industry Units merged into Hyosung Co., Ltd.; developed 800kV 2 Pole GIS for the first time in the world
- 1996** Daejeon nylon film plant completed
- 1995** China PET bottle plant and Daejeon tile carpet plant completed
- 1992** Anyang Plant started manufacturing Spandex
- 1990** Started Spandex business
- 1989** Started PP and propylene business, Hyosung Ebara established
- 1986** Developed a new computer model for offices, POWER-5800
- 1983** Developed microfiber yarns that combined nylon and polyester
- 1979** Eonyang Plant started manufacturing PET bottles
- 1977** Hyosung Heavy Industry Changwon Plant completed
- 1975** Acquired Hanyoung Industry (predecessor of Hyosung Heavy Industry)
- 1973** Dongyang Polyester and Dongyang Textile established
- 1972** Started exporting tire cord fabric to Southeast Asia
- 1971** R&D Center established
- 1968** Ulsan Plant completed
- 1966** Dongyang Nylon established
- 1957** Hyosung Industry established



BUSINESS RESULTS

Our innovation and thirst for challenge ensure our sustainable growth

We are committed to expanding our profitability by strengthening our existing business capacity based on 'Value Management through Global Excellence' and solidifying our market position through global network enhancement in the core business areas for a continuous growth. We promise to continue our creative innovation and meet new challenges to strengthen our global business competitiveness and make consistent changes and progress to maintain our image as the best global corporation.



Business Results

Since its establishment, Hyosung had to overcome many difficulties but grew steadily. Through its capacity to raise its quality, technology, cost competitiveness, and marketing levels to global standards and exploring global markets, it is growing as one of the world's best corporations. Moreover, we continue our growth through innovation and triumphs in new challenges.

Group management performance

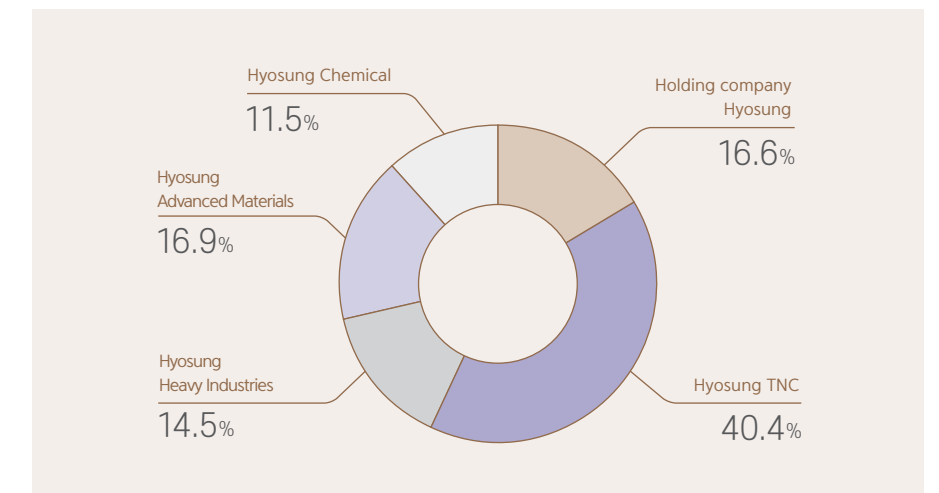


Management performance of holding company and major subsidiaries

	Holding company Hyosung	Hyosung TNC	Hyosung Heavy Industries	Hyosung Advanced Materials	Hyosung Chemical
Total Sales	3,538,943	8,596,030	3,094,699	3,597,777	2,452,990
Operating Profit	640,563	1,423,651	120,066	437,310	148,573
Total Assets	5,257,874	4,526,469	4,022,701	2,908,682	3,056,203

(In millions of KRW)

Group sales proportion



※ End of December 2021

※ This financial data is a simple sum of the 2021 consolidated financial statement, total sales amount, operating profit, and total assets of the holding company and major subsidiaries of Hyosung Group.

GLOBAL NETWORK

Hyosung is building a localized strategic global network

With nearly 20,000 people working at 100 business sites in the world, Hyosung has been building a global network based on localization strategies, and this has been the growth engine that has allowed Hyosung to become a global company where 70% of its profit are made from overseas businesses. Even today, Hyosung's global network continues to march vigorously forward for a better tomorrow.



World wide Connection

The global competitiveness of Hyosung has been achieved by a localized strategic global network that allows the high-quality products clients demand to be supplied promptly and stably, along with excellent technologies. Since the early stages of the company's history, Hyosung has been concentrating its efforts on establishing global production bases, and such efforts have allowed Hyosung to accurately reflect the tastes and lifestyle of local clients in its products.

Total **114** business site in **29** countries

Asia

60 business site in **14** countries

KOREA	CHINA	INDIA	INDONESIA
JAPAN	MALAYSIA	BANGLADESH	SINGAPORE
TAIWAN	THAILAND	U.A.E.	VIETNAM
QATAR	SAUDI ARABIA		

Europe & Africa

15 business site in **9** countries

GERMANY	ITALY	LUXEMBOURG
ROMANIA	RUSSIA	SPAIN
TURKEY	UK	SOUTH AFRICA

America

19 business site in **5** countries

USA	BRAZIL	MEXICO	PANAMA	CHILE
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Oceania

1 business site in **1** countries

AUSTRALIA

Production Network

Domestic	Overseas		
14 Plants	Asia 22 Manufacturing Entities in 3 countries CHINA INDIA VIETNAM	Europe & Africa 5 Manufacturing Entities in 5 countries GERMANY LUXEMBOURG ROMANIA TURKEY SOUTH AFRICA	America 5 Manufacturing Entities in 3 countries U.S.A BRAZIL MEXICO

Marketing / R&D Network

Domestic	Overseas			
5 R&D Centers	21 Trading Entities	10 Trading Entities Branches	16 Trading Offices	16 Sales Offices



WORLD WIDE HYOSUNG MAP

AMERICA_



PITTSBURGH (USA)
HICO America Sales and Technology, Inc.



IRVING (USA)
Nautilus Hyosung America, Inc.



DECATUR (USA)
Hyosung USA, Inc. (Decatur Plant)



ENSENADA (MEXICO)
GST Automotive Safety Components International S.A. de C.V.



TORREON (MEXICO)
GST Safety Textiles Mexico S. de R.L. de C.V.



SANTA CATARINA (BRAZIL)
Hyosung Brasil Industria E Comercio De Fibras Ltda.

AFRICA_



HAMMARSDALE (SOUTH AFRICA)
GST Automotive Safety South Africa (Proprietary) Limited

EUROPE_



COLMAR-BERG (LUXEMBOURG)
Hyosung Luxembourg S.A.



MILANO (ITALY)
Hyosung Europe S.R.L.



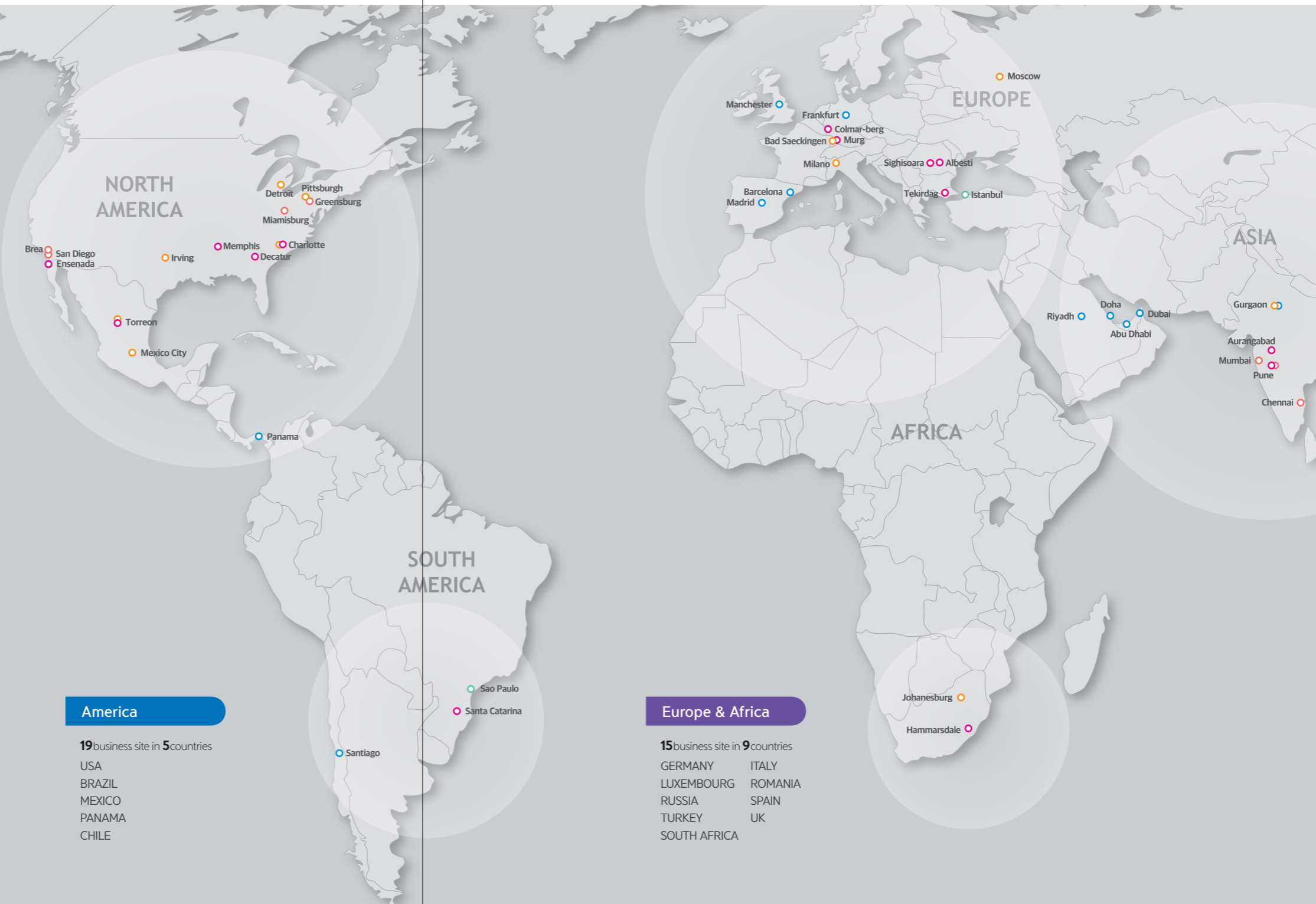
ISTANBUL (TURKEY)
Hyosung Istanbul Tekstil Ltd Sti



MURG (GERMANY)
GST GmbH - Murg



SIGHISOARA (ROMANIA)
GST Automotive Safety RO S.R.L.
GST Safety Textiles RO S.R.L.



America

19 business site in **5** countries
USA
BRAZIL
MEXICO
PANAMA
CHILE

Europe & Africa

15 business site in **9** countries
GERMANY ITALY
LUXEMBOURG ROMANIA
RUSSIA SPAIN
TURKEY UK
SOUTH AFRICA

Overseas



Domestic



ASIA_



JIAXING (CHINA)
 Hyosung Spandex (Jiaxing) Co., Ltd.
 Hyosung Chemical Fiber (Jiaxing) Co., Ltd.
 Hyosung Chemicals (Jiaxing) Co., Ltd.
 Hyosung International Trade (Jiaxing) Co., Ltd.



GUANGDONG (CHINA)
 Hyosung Spandex (Guangdong) Co., Ltd.



ZHUHAI (CHINA)
 Hyosung Spandex (Zhuhai) Co., Ltd.



QINGDAO (CHINA)
 Hyosung Steelcord (Qingdao) Co., Ltd.



ZHANGJIAGANG (CHINA)
 Zhangjiagang Xiao-sha Coil Service Co., Ltd.



NANTONG (CHINA)
 Nantong Hyosung Transformer Co., Ltd.



CHANGSHU (CHINA)
 GST Automotive Safety (Changshu) Co., Ltd.



PUNE (INDIA)
 Hyosung T&D India Pvt. Ltd.



DONG NAI (VIETNAM)
 Hyosung Vietnam Co., Ltd.
 Hyosung Dong Nai Co., Ltd.

Asia

- 60 business site in 14 countries
- | | |
|------------|--------------|
| KOREA | CHINA |
| INDIA | INDONESIA |
| JAPAN | MALAYSIA |
| BANGLADESH | SINGAPORE |
| TAIWAN | THAILAND |
| U.A.E. | VIETNAM |
| QATAR | SAUDI ARABIA |

Oceania

- 1 business site in 1 countries
 AUSTRALIA



TEXTILE_



ULSAN PLANT
 Nylon/Polyester chips, Nylon fibers



GUMI PLANT
 Spandex, Polyester fibers, Polyester chips



DAEGU PLANT
 Dyeing

POWER & INDUSTRIAL SYSTEMS_



CHANGWON PLANT
 Transformers, Switchgears, Motors



HGS CHANGWON PLANT
 Pumps

INDUSTRIAL MATERIALS_



ULSAN PLANT
 Tire cords, Technical yarn, Aramid, PET BCF



ANYANG PLANT
 Rolled carpets, Car mat, Nylon BCF



DAEJEON PLANT
 Tile carpets, Mat, PP BCF



JEONJU PLANT
 Carbon fibers

CHEMICALS_



YONGYEON PLANT
 PP/DH, TPA, Polyketone, NF₃ TAC films, PET films



DAEJEON PLANT
 BOPA films



GUMI PLANT
 PET films, BOPA films



OKSAN PLANT
 Tac films, Acryl films

INFORMATION & COMMUNICATION_



HYOSUNG TNS GUMI PLANT
 ATM

BUSINESS DIRECTORY

Domestic

TEXTILE / TRADING

Hyosung TNC Corporation

www.hyosungtn.com

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Ulsan Plant

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T. 82-52-278-7000 F. 82-52-261-6180

Gumi Plant

(39404) 108 3 Gongdan2-ro, Gumi-si, Gyeongbuk (Simi-dong)
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Daegu Plant

(42701) 45 55-gil, Seongseogongdan-ro, Dalseo-gu, Daegu-si (Jang-dong)
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Daegu Office

(41931) Suite 601, 488 Gukchaebosang-ro, Jung-gu, Daegu-si (Dongsan-dong, Textile Hall)
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Busan Office

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Trading HQ

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Gwangju Frozen Storage

(12767) 536-7 Sunamro, Gwangju-si, Gyeonggi-do (Sam-dong)
T. 82-31-763-3611 F. 82-31-763-3615

Sebitseom

www.somesevit.co.kr
(06500) 2085-14, Olympic-daero, Seocho-gu, Seoul
T. 82-1566-3433 F. 82-2-3477-5809

POWER & INDUSTRIAL SYSTEMS / CONSTRUCTION

Hyosung Heavy Industries Corporation

www.hyosungheavyindustries.com

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Changwon Plant 1

(51529) 171 Yeondeokro, Seongsan-gu, Changwon-si, Gyeongnam (Nae-dong)
T. 82-55-268-8000 F. 82-55-268-9029

Changwon Plant 3

303, Gongdan-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do, 51559 (Ungnam-dong)
T. 82-55-279-7607 F. 82-55-281-0092

Construction HQ

(04529) 67, Toegye-ro, Jung-gu, Seoul
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HYOSUNG GOODSPRINGS Inc.

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Busan Branch

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Busan Branch - Yeosu Office

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Chinhung International, Inc.

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ADVANCED MATERIALS

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Daejeon Plant

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Jeonju Plant

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CHEMICALS

Hyosung Chemical Corporation

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Yongyeon Plant 1

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(44784) 130 Yongyeonro, Nam-gu, Ulsan-si (Yongyeon-dong)
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Daejeon Plant

(34325) 85 17 Beongil, Sinilseoro, Daedeok-gu, Daejeon-si (Sinil-dong)
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Hyosung Information Systems Co., Ltd.

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Galaxia Moneytree Co., Ltd.

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Galaxia Metaverse Co, Ltd.

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Galaxia Device Co., Ltd.

www.galaxiadevice.com

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The Class Hyosung Corporation

www.theclashhyosung.com

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The Premium Hyosung Co., Ltd.

www.hyosunglexus.com

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(61965) 881 Sangmudaero, Seo-gu, Gwangju-si (Ssangchon-dong)
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Forza Motors Korea Corporation

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Hyosung Premier Motors Corporation

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A-Seung Automotive Group Co., Ltd.

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Shinwha Intertek

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Steel Wire Technical Center

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Technology R&D Center

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Hyosung Spandex (Quzhou) Co., Ltd.
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Hyosung New Material & HighTech (Quzhou) Co., Ltd.
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Hyosung Spandex (Ningxia) Co., Ltd.
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Hyosung Film (Quzhou) Co., Ltd.
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Hyosung Steel cord (Qingdao) Co., Ltd.
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Nantong Hyosung Transformer Co., Ltd.
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Hyosung Spandex Corporation Fujian Office
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Hyosung Spandex Corporation Shanghai Office
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Hyosung Spandex Corporation Shaoxing Office
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Hyosung Spandex Corporation Zhangjiagang Office
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Hyosung Spandex Corporation Yiwu Office
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Hyosung Financial System Vina Company Limited.
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