

CREATIVITY INSPIRED

**HYOSUNG**

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| Inspiring Every Creation in the World |

CREATIVITY INSPIRED  
**HYOSUNG**

**N E W**  
H Y O S U N G



We know that new changes and advances do not come by chance alone.

A process must be in place to gather the small results of countless challenges and failures and harness them to overcome difficulties. We remember the endeavors and sacrifices of those building the energy for our future and successfully bringing about change.

At Hyosung, we are pursuing the path of challenge and exploration

A NEW  
CHANGE  
BEGINS

- New challenges bring future changes

## — GLOBAL TECHNOLOGY LEADING NEW CHANGES

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



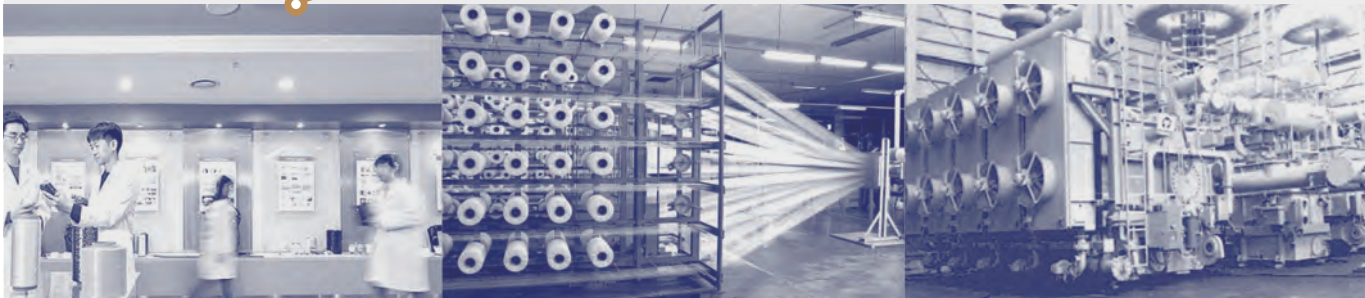
- HISTORY OF 'THE FIRST'
- GLOBAL TECHNOLOGY



- New challenges bring future 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 developments achieved through an indomitable spirit overcoming countless ordeals and difficulties.





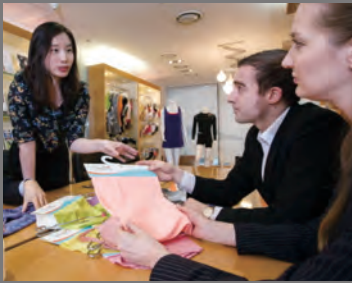
# History of New Challenges and Advancements



- New challenges bring future changes

## GLOBAL TECHNOLOGY

With its global production system of core products spreading across over 114 or more 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 CORDS



45%  
Tire Cords Used in 45% of Cars Around the World  
**Hyosung Advanced Materials**



# 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

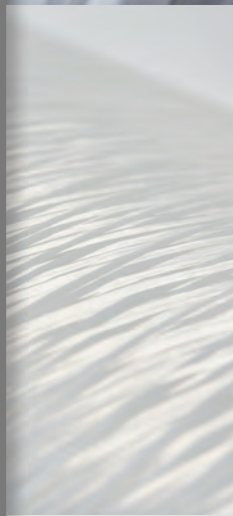


## ATM



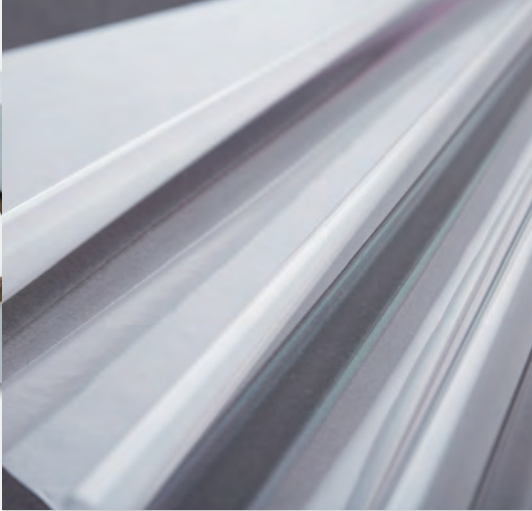
No.1 in the United States and Indonesian, Russian ATM markets

Hyosung TNS



- New challenges bring future changes

## **Global Technology Leading New Changes**



—  
GLOBAL  
TEXTILE

—  
INNOVATIVE  
MATERIALS

—  
ENERGY  
NETWORKS



—  
GLOBAL



# TEXTILE

**Spandex Brand, creora®**

**World's Top Tier Product Brand, aerocool®**

creora®, by Hyosung TNC, currently has the No. 1 global market share in spandex with its best quality and largest production capacity in the world. It continues to maximize customer value by innovatively improving the functionality of textiles including nylon and polyester yarn, as one of the Top 5 makers in the world.



—  
**INNOVATIVE**



# MATERIALS

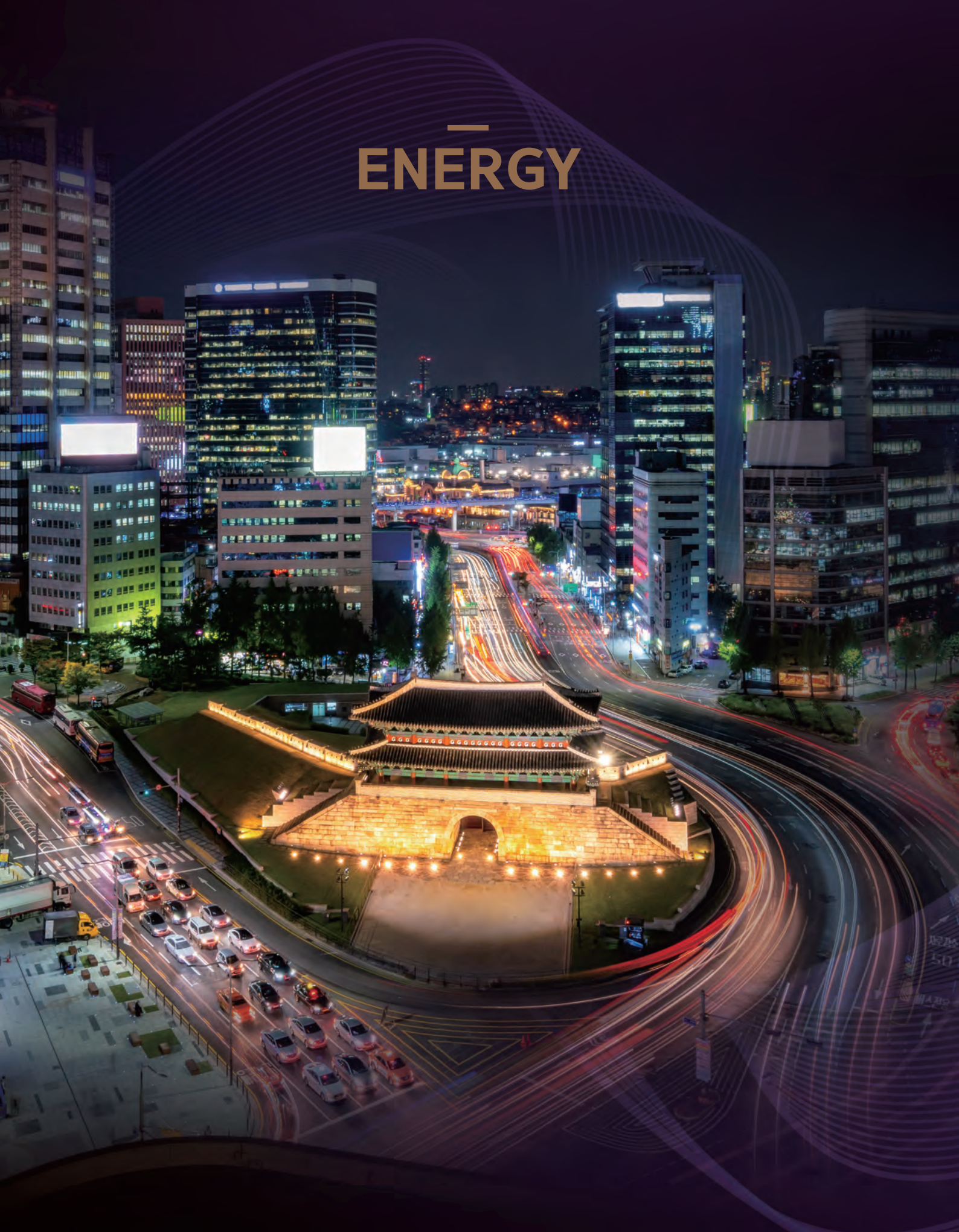
**Automotive Materials including Tire Cords,  
Airbag Fabric and Seatbelt Yarns**

**High-molecular Compound, POKETONE™ and  
Carbon Fiber, TANSOME®**

Through optimized advanced materials, Hyosung continues to lead technological innovation in the automotive components industry. In particular, with the commercialization of the eco-friendly, high-molecular compound, "Polyketone," and the dream fabric, "Carbon Fiber," Hyosung continues to open new chapters in the global industrial materials market.



# ENERGY



# NETWORKS

## Energy Transmission/Transformation/Generation Equipment Future Electrical Grid System

Along with the development of world's first 800kV GIS, Hyosung Heavy Industries is endeavoring to develop the core technologies required for establishing future electrical grid system such as STATCOM, Electricity Storage System (ESS), wind power generation, solar power generation and SMART Grid. Hyosung, with its heavy electric machine technology, has been preparing in advance to take the role of the leader in the new low-carbon, green-growth era.



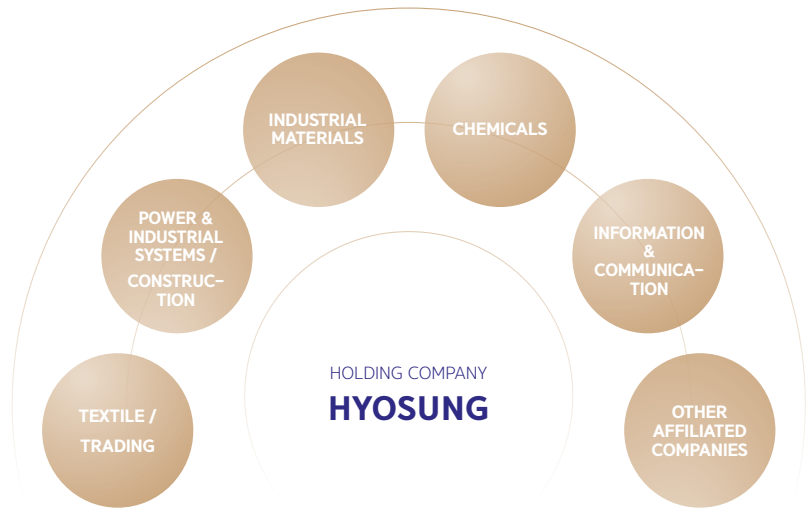
- We develop new systems to increase customer value

## — CUSTOMER & FIELD ORIENTED MANAGEMENT

Hyosung is establishing a new management system in order to provide differentiated products and services to customers around the world. With a system that better reflects the various demands of customers, Hyosung will continue to further improve customer value.

## 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.



### Dec. 2017.

Board of Directors approves the decision to restructure Hyosung into an affiliate system

### Apr. 2018.

Foundation of holding company and temporary general stockholders meeting for the division

### Jun. 2018.

Group divided into individual affiliates

### Jul. 2018.

Modified current listing for holding company Hyosung, Hyosung TNC, Hyosung Heavy Industries, Hyosung Advanced Materials and Hyosung Chemical and relisted on stock exchange

#### TEXTILE / TRADING

- Hyosung TNC Corporation
- Hyosung Transworld Co., Ltd.

#### POWER & INDUSTRIAL SYSTEMS / CONSTRUCTION

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

#### INDUSTRIAL MATERIALS

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

#### CHEMICALS

- Hyosung Chemical Corporation

#### INFORMATION & COMMUNICATION

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

#### OTHER AFFILIATED COMPANIES

- Hyosung Capital Co., Ltd.
- 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.
- Galaxia Corporation Co., Ltd.
- Shinwha Intertek Corporation

- Beginning a new change for a better tomorrow

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# NEW HYOSUNG COMMITMENT TO EXCELLENCE

Changes in Hyosung are part of the endless quest for new technologies capable of increasing customer value. Hyosung's history has focused on exploring a better tomorrow without fear, and Hyosung continues to add new chapters today.

## EXPERTISE

Hyosung reinforces its competitiveness by concentrating its capabilities and establishing a corporate system suited to the market situation and business characteristics.

## EFFICIENCY

Hyosung maximizes management efficiency by defining ideal management objectives and making prompt decisions according to the circumstances of the subdivided markets.

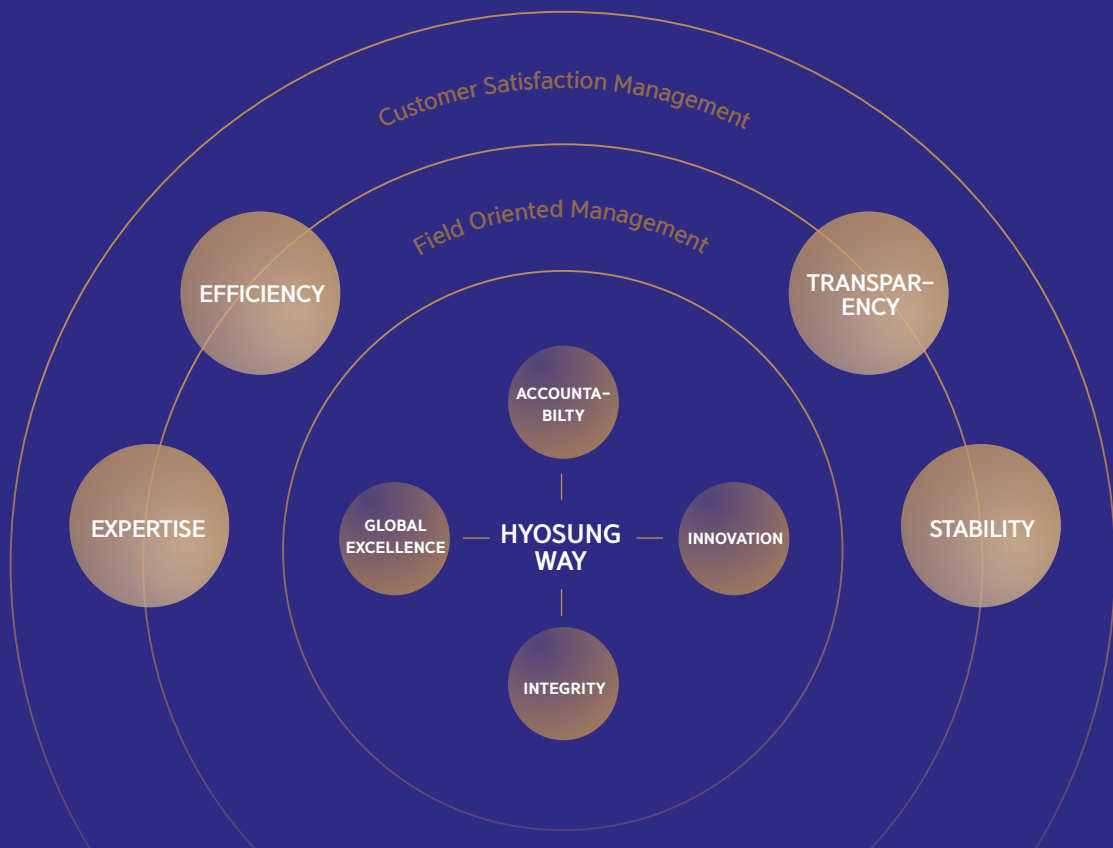
## TRANSPARENCY

Hyosung evaluates its management performance fairly and justly, and improves management transparency by granting autonomy and responsibility to mid and long-term business plans.


## STABILITY

Hyosung is improving its corporate governance and managing business and investment risks more effectively to ensure business stability.

## VALUE IN NEW HYOSUNG



“Building a Better Life for the People based on the Best Technology and Management Capabilities”  
**HYOSUNG WAY** is a value system to turn dreams into reality by bringing together the will and capabilities of all Hyosung members throughout the world.



**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, industrial 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 securing and maintaining customer loyalty and trust.



# BUSINESS AREAS

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

# TEXTILE / TRADING

- Hyosung TNC Corporation
- Hyosung Transworld Co., Ltd.



## 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 technology and a global trade network

Textile business of Hyosung TNC is leading the global chemical fiber industry by supplying fiber, textiles and dye products such as spandex, nylon, and polyester as well as offering excellent technology, quality and customer service. Furthermore, trading business, based on a network of more than 50 overseas branches around the world, is offering the highest level of marketing services in various fields centered on steel and chemicals, as well as a wide variety of fields including distribution and logistics, and is continuing to grow at the center of global trading by introducing new products and exploring new markets based on the strength of its rich experience.



## Spandex PU

### 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

### No. 1 global market share, the world's No. 1 spandex brand creora®

#### Selected as a 'World-class Product of Korea' by the Korean government

Powered by its proprietary production technologies, R&D and global marketing activities, Hyosung TNC has grown to become the largest spandex manufacturer in the world, and its spandex brand creora® is ranked No. 1 in global market share. With its best quality and value, creora® continuously develops new product lines that meet customers' needs and creates new prospects in the textile industry. creora® introduces its consumer fabrics to major brands through the creora® Fabric Library located in major fashion cities including Seoul, Hong Kong, Shanghai, New York and Milan. The creora® workshop is held regularly to provide consulting services to help customers enhance their competitiveness through customized one-on-one consultation. It is a part of the differentiated marketing activities under Hyosung's win-win management, whose goal is to grow with customers. Having built local production facilities in China, Turkey, Vietnam, Brazil, and India to establish a production network that spans the continents, Hyosung provides the best services based on responsive support and stable supply of the products. creora® is striving constantly to develop and supply an innovative product. It offers a wide range of differentiated products such as creora® Color+ to be dyed in blends with nylon, which can reduce grin-through on textile products, and makes the color of fabrics deeper and more vivid; black dope dyed spandex creora® Black, which brings out deeper, more sophisticated colors that conventional spandex is unable to give; the eco-friendly yarn creora® eco-soft, whose soft-touch fabric can be produced at a lower temperature than conventional spandex to save energy; creora® highclo™, which has the highest level of chlorine resistance to offer excellent elasticity in swimsuits, and creora® Fresh, which helps neutralize causes of body odor to keep you feel fresh and comfortable. This is the reason why global business brands have consistently chosen creora®, and why it is the No. 1 market leader globally.

## Nylon Polyester Fiber PU

- MIPAN regen®
- MIPAN fine & soft
- MIPAN robic
- MIPAN robic-air
- MIPAN aqua-X
- MIPAN fit
- MIPAN rexy
- MIPAN glurex
- MIPAN XF
- MIPAN aeroheat

Hyosung TNC is a global chemical fiber manufacturer continuously developing multi-function, high quality nylon and polyester yarns to help customers create more value. Its products are strongly preferred by customers around the world.

### Nylon Fiber Business Division

#### Korea's best nylon fibers / Development of the world's first microfibers

As the undisputed market leader in Korea, the Nylon Fiber Business Division produces a wide variety of highly functional fibers including TOPLON®, which is our major product line used to manufacture premium lingerie, outdoor sportswear and industrial materials, MIPAN fine & soft, MIPAN aqua-X (Cool-touch, wicking nylon), MIPAN aeroheat (Heat-generating nylon), MIPAN fit (far-infrared radiation yarn), MIPAN XF (N/P compound yarn), MIPAN rexy (flat surfaced yarn with a shiny, metallic luster), MIPAN corona (conductive yarn), MIPAN glurex (bonding yarn), MIPAN robic (highly robust yarn), and MIPAN robic-air (hollow yarn). We also focus on developing cutting-edge materials that include the world's first microfibers. In particular, MIPAN regen®, our recycled nylon for clothes, helps reduce the consumption of fossil fuel, preserve natural resources and cut down energy and greenhouse gas emissions. This product was recognized by the Global Recycled Standard (GRS) of the Control Union in the Netherlands for its many ecological benefits.



- regen®
- aerocool
- prizma
- xanadu
- cotna
- freshgear
- aerolight
- askin
- aerosilver
- firex
- m2
- aerogear
- aeroheat ex

**Polyester Fiber Business Division**

**Development of regen®, Korea's first yarn recycled from PET bottles  
m2, aerocool, and askin, selected as the world's best products**

With its own superior technologies in high-performing product lines, the Polyester Fiber Business Division develops and supplies a wide variety of new materials required for the development of hightech functional products through continuous R&D. The division is contributing to high value creation for customers by constantly developing various differentiated products, such as m2, a microfiber which was recognized by the government of Korea as one of the world's best products; aerocool, a leading cool-touch wicking yarn; askin, a cool-feeling, UV-blocking, non-see-through yarn; freshgear, which has deodorization function for sweat odor; aeroheat, which is heat-generating fiber; aerosilver, an antibacterial yarn with silver elements; aerolight, hollow-core light concept yarn, sweat-absorbing, quick-drying functions; aerocool prizma, which is a multifunctional, sweat-absorbing, quick-drying yarn with an excellent dyeing function and colorfastness; and xanadu, a latent and potential crimped yarn which is highly elastic with a stable shape and durability compared to spandex. In particular, the Polyester Fiber Business Division has made special efforts to develop ecological fiber materials and launched regen®, a recycled polyester yarn made from waste PET bottles, for the first time in Korea. regen® has been GRS-certified by the Control Union, an environmental certification organization.

**Fabric Dyeing PU**

- Garment fabric
- Workwear fabric
- Non-Garment fabric

**Fabric Unit**

**Supplying multiple fabrics, including functional and protective wear, and cleaners  
Finestar® — a comprehensive brand of cleaning products using microfiber**

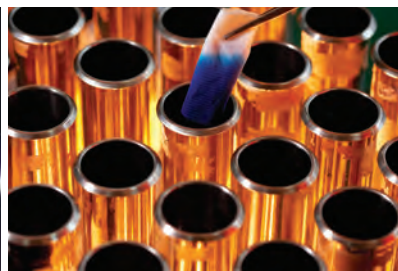
The Fabric Unit is equipped with an integrated production system that covers yarn production, fabric weaving, dyeing and post-processing, and focuses on developing highly functional high-tech products. The unit's main products include garment fabric, workwear fabric and non-garment fabric. The garment fabric uses a functional fiber to produce waterproof and water-permeable, ultra light, sweat-absorbing and fast-drying, ecological, cooling, light and thermal, elastic tricoat, and fireretardant materials. The workwear fabric includes highly durable and functional work suits, fireretardant products such as aramid and modacrylic, highly durable dust-free garments worn in clean rooms, highly robust nylon and protective wear and military fabrics made of para-aramid. The fabrics for non-apparel products include Finestar®, a comprehensive lineup of cleaner fabric using microfiber. The unit manufactures and sells lens and display cleaners, clean room wipers for semiconductor and other electronics manufacturing and household cleaners. In addition, the unit develops and supplies its highly robust fabrics using the nylon high-tenacity fiber Robic™ and highly durable and protective case fabrics Hyskin™.

- Spandex fabric
- Mixed fabric
- Polyester fabric

**Dyeing Unit**

**Monthly capacity of 700K yards of nylon 2-Way spandex and 2.5 million yards of dyeing**

Hyosung's Dyeing Unit leads the Korean dyeing and processing industry and has the best integrated dyeing plant in Korea, which dyes 2.5 million yards of fabrics annually. In particular it can also process 700K yards of nylon 2-Way spandex monthly, which is a highly difficult process. In addition to its dyeing process for nylon 2-Way spandex, polyester 2-Way spandex, cotton union cloth, and polyester fabrics, it provides a variety of additional processing steps including buffing, sanforizing, and singeing.



## Steel & Metal Products PU I, II

- Steel & Metal I : Hot-rolled coils, Wire rods, Cold-rolled coils, Galvanized steel coils, Steel plate, Electrical steel, Tin plate, PPGI, Steel raw and subsidiary material, Steel processing machinery / Equipment, etc.
- Steel & Metal II : Stainless hot-rolled coils, Stainless cold-rolled coils, Stainless wire rods, Steel plate, Bar steel, Section shaped steel

### Leading the steel & metal products trading field by reinforcing export and import partnerships with global customers

As the exporter of the products manufactured by major Korean steel & metal makers including POSCO, Hyundai Steel, Hyundai Hysco, Dongbu Steel, SeAH Steel, SeAH Besteel, SeAH CSS, Dongkuk Steel, Union Steel, the Steel & Metal Products PU is cementing its export and import partnerships with customers worldwide with services provided by steel & metal professionals and enhancing mutual profitability and prosperity. The Steel & Metal Products PU handles iron and steel products such as hot rolled coils, wire rods, cold rolled coils, galvanized steel sheets, medium/thick plates, electrical sheets, stainless hot rolled/cold rolled coils, stainless wire rods, bar steel, shape steel, and special steel, iron- and steel-related raw materials and sub materials, and iron & steel material processing facilities. The skilled workers in the Steel & Metal Products PU will make sincere efforts for increases in mutual benefits and prosperity by strengthening export/import partner relationships with customers in various countries around the world through the provision of expert technical information on products and best services.

## Chemical Products PU

- Raw Materials for Synthetic Fibers : TPA, PET Chip, PSF
- Plastic Resins: PP, PE, ABS, PS, PVC, etc.
- Fine Chemicals: MDI, TDI, ECH, BPA, PIA, NPG, Nitric Acid, Ammonium Nitrate, etc.
- Mining Chemicals and Concentrates : Concentrates (Au/Pb/Zn/Cu/Sb), NaCN, Zinc Dust, and Concentrates
- Fertilizers and Others : AMSUL, UREA, NPK, TiO<sub>2</sub>, etc.

### Pioneering new markets with a wide range of chemical products through the global network

Chemical Products PU makes contributions to customer satisfaction and is diversifying its product range through the global network of Hyosung. It is also committed to developing and fostering chemical products for a future growth industry. In addition to traditional chemicals such as petrochemical products, fine chemicals and agricultural chemicals, Chemical Products PU also trades ore resources such as concentrates and basic materials. By expanding the range of chemicals traded and vitalizing three-party trades, Chemical Products PU continues to aim at achieving its vision of becoming a leading chemical trading company that offers the highest level of customer satisfaction services.

## LED Business Division

- LED Application and energy solutions

### Next-Generation, New Growth Engine: Leading the LED Industry Providing LED lighting-based energy solutions

The LED Business Division exports uniquely designed high-quality LED lighting and application products for household, industrial and commercial purposes to various parts of the world, providing total solutions that are optimized for a wide range of user environments and needs. It has also contributed to augmenting Hyosung's future value by carrying out various LED lighting-based energy solutions projects as an eco-friendly, low-carbon growth partner for customers.

## Sebitseom Business Division

### Sebitseom is Cultural Complex of Hangang River

We are striving to develop the world's first waterborne architecture, Sebitseom, as a landmark in Seoul and the Hangang River. Floating Island is composed of buildings on floating bodies that can float on the water and comprises three islands, 'gavit,' 'chavit,' and 'solvit,' along with 'yevit,' which is a waterborne stage space. 'gavit' is occupied by a convention hall optimized for the hosting of MICE industry events such as international conferences, corporate events, parties, and wedding ceremonies, cafés where people can enjoy drinks while viewing the Hangang River, Italian restaurants and pub restaurants. 'chavit' is occupied by chavit cuisine, a buffet restaurant, and various facilities such as an ice cream shop, a bakery, a coffee shop and a tea salon, and a souvenir shop. 'solvit' operates an exhibition hall and various culture events which form a unique culture space in the Hangang River. It also has facilities for water-related leisure activities that people can enjoy while viewing the river, such as yachts and Tubesters, offering additional entertainments for tourists who visit Sebitseom. The Sebitseom Business Division is making efforts to make the island a landmark that represents Seoul.



## Hyosung Transworld Co., Ltd.

- Provide Air & Ocean freight forwarding services including Export / Import of Containers, Bulk, Plant materials and Project transportation, etc.

### **Reducing customers' logistics costs and enhancing productivity**

Hyosung Transworld supports customers to reduce logistics cost and boost global competitiveness by providing high-quality logistics services and stable space securement on air and ocean freights, covering all cargo types including container, bulk, and plant/project materials.

Our over 20 years' experience in forwarding business in a wide range of industries enables us to provide professional logistics consulting services to suit each customer's conditions. We keep moving forward to meet complicated needs for many different customers through ceaseless business innovation and service developments, based on systemized V.O.C(Voice of Customer) and V.O.C.C(Voice of Customer's Customer) programs, etc.

As an A.E.O.(Authorized Economic Operator)-certified freight forwarder with 128 partners from 42 countries all over the world, Hyosung Transworld provides the best and optimal total logistics services.



# 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 electrical grid and eco-friendly construction lead green growth

Hyosung Heavy Industries is in possession of the world's best technology in heavy electric equipment, the core of industrial energy. In addition to electric equipment such as transformers and circuit breakers, its motors, generators and gears receive high regard in the industry, and the company is developing the core technologies necessary for establishing future electrical grids such as energy storage system (ESS), STATCOM and smart grids. Furthermore, the company is actively participating in various construction projects such as housing, business and commercial, civil and environmental, and SOC projects based on its rich history and high trust it has gained.



## Power Systems PU

- Transformers (HV Power Transformer, Oil-immersed Distribution Transformer, Cast Resin Transformer, Shunt Reactor, Special Transformer)
- Switchgears (Gas Insulated Switchgear, MV/LV Switchgear, Motor Control Center)
- Intelligent Electronic Devices (Digital Meter, Digital Relay, Data Communication unit)
- IT Solutions (Distributed Control Systems, Substation Automation System, Electrical Equipment Control & Monitoring System)
- Preventive Diagnostic System (PDS)
- Energy Storage System (ESS)
- STATCOM / SVC
- EPC Turn-key Solution (AIS / GIS Substation, Photovoltaic Power Plant)

## Industrial Machinery PU

- Motors
- Gear units
- Generators
- Chemical process equipment
- Hydrogen gas Filling Station

### Supplier of 70% of the core products required in power supply in Korea

#### Korea's first, world's sixth in developing 765kV-class ultra-high voltage transformers in 1992

#### World's first developer of 800kV class double-break gas-insulated switchgear (GIS) in 1999

Hyosung Heavy Industries has been leading the power transmission and distribution industry in Korea for the past 50 years with its main products of transformers, switchgears and substation solutions. Based on years of know-how in the local market, it has successfully expanded its business to markets across Europe, the Americas, and Central and East Asia, gaining recognition for its high standards of quality and safety. With its industry-leading technologies, the Power Systems Performance Unit offers a range of key products including transformers, Switchgears and provides comprehensive engineering and solutions with its expertise in power systems, i.e., engineering, design, manufacturing, installation, and testing, and maintenance service in power transmission, distribution and generation. To provide the best quality and service, Hyosung implements rigorous quality assurance policies and meets the ISO 9001 requirements. Hyosung is reinforcing its power condition monitoring and preventive diagnosis system, and IT-based power automation. To meet the global demand, the Power Systems Performance Unit is also strengthening global operations via Nantong Hyosung Transformer (established in China, 2006) and Hyosung T&D India Pvt. Ltd. (established in India, 2015).

### Korea's No.1 electric motor manufacturer

#### Provides optimized solution through a wide range of industrial product lineups

The Industrial Machinery Performance Unit is a professional manufacturer specializing in rotating equipment such as motors, generators, and gear unit as well as industrial machinery such as chemical. The electric motor division succeeded in localizing the propulsion motors for defense, BLDC motors and Q-Class motors for nuclear power plants with the accumulated technology and know-how for a long time. We have developed a series of motors that satisfy all KS, IEC, NEMA and GOST standards with the world as its stage. It has manufacturing facilities to produce more than 40 thousand units of electric motors per month, such as small and low-voltage motors, high-voltage motors, super-premium efficient motors, military motors, explosion-proof motors, and permanent magnet motors, which are optimized for various purposes and places. Generators are fulfilling customer satisfaction in various domestic and overseas market through various products such as ship, steam turbine, a water turbine, wind turbine, and MG-Set. In particular, we succeeded in localizing the 'MG-Set for control of fuel rods', the core facility of nuclear power plants, and expanded its supply to overseas nuclear power plants. We also manufacture gear units, which are power transmission devices, to produce products that require high reliability in various industries such as general industrial, power generation, marine, and defense industries. In this field, we succeeded in localization of ship gear box, gear box for power coal grinder, and high speed gear. The industrial machinery division produces tower, column, reactor, pressure vessel, and heat exchanger, which are core equipment used in petrochemical, oil and gas plant processes. We have been recognized for its technology, quality and production capability. Based on this, we are expanding our business scope to high end medical device related devices such as proton therapy devices. The hydrogen filling station business has been supplying hydrogen gas compression systems and Hydrogen/ CNG filling stations based on CNG compression system technology, which has participated in the government's eco-friendly vehicle supply project since 2000. We are committed to becoming a world-class comprehensive machinery and plant engineering company that not only supplies equipment but also provides a solution optimized for customers' operating plants. We are always with our customers' goals, strictly adhere to international and industry standards. we are doing our best for that purpose.



## Wind Energy Business Division

- Wind turbine (5.5MW / 2MW / 750kW)

**For a national project, Hyosung developed a 5MW & 5.5MW offshore wind power generation system  
Acquired international certification in 2015 & 2019**

**Korea's first developer of 750kW and 2MW-class wind power generation systems**

As a leader of Korea's wind power industry, the Wind Energy Business Division succeeded in the development and commercialization of the geared-type 750kW wind power turbine. For the first time in Korea, the group was internationally certified by DEWI-OCC, the German wind power generator certifier, for the 750kW and 2MW-class geared-type wind generation systems. Since 2011, Hyosung have started commercial sales of 2MW models and have signed contracts to supply total 35MW of onshore wind turbine to Jeju Island, Gangwon Province (Taebaek and Pyeongchang), and successfully performed EPC service as well. Hyosung is currently developing 100MW onshore windfarm projects in Gangwon and Gyeongsang provinces. In addition, we are targeting to supply our 5.5MW turbines to Jeolla province and Jeju island offshore windfarm project which will contribute to localization of offshore wind power equipment and strengthening national competitiveness.

## Construction PU

- Housing (Apartments, Residential and commercial buildings, Villas, Terrace houses)
- Building (Business, Commercial facilities, Leisure facilities)
- Civil Engineering (Roads, Railways, Site development, Golf courses)
- Industrial (Plant facilities, Power generation facilities, Electric power facilities)

**The first company in Korea to introduce villa-type residences**

As the first Company that developed a new concept of housing culture by introducing villa type residential buildings in Korea in the 1970s, it is working hard to give customers full customer satisfaction with its differentiated technical competence and construction capability in the residential, construction and industrial sectors. It is creating spaces where nature and technology are in harmony while strictly following all applicable regulations and requirements for the sustainable coexistence of the environment and technology. Construction PU's representative brand 'Harrington' has presented a combined BI with Chinhung International, Inc. (an affiliated company) since 2013.



## HYOSUNG GOODSPRINGS Inc.

- Pump Business : Pumps for Thermal, Combined-cycle, Nuclear Power Plants / Pumps for Petrochemical, Refinery, Fertilizer Plants / Pumps for Desalination Plants / Pumps for Buildings & Industrial uses
- Water Business : Desalination (RO) System / UF Membrane System

### Korea's No.1 pump manufacturer

#### Korea's No.1 RO desalination system solution provider

HYOSUNG GOODSPRINGS Inc. Korea's largest pump and seawater desalination plant equipment supplier, produces pumps for a wide variety of applications for thermoelectric power plants and combined cycle power plants as well as nuclear plants that put safety first, petrochemical plants that process petroleum, chemicals and gases, shipbuilding, commercial and residential, general, and industrial plants and desalination plants. To develop independent technologies, HYOSUNG GOODSPRINGS Inc. has been concentrating its efforts on developing, producing and supplying large high-pressure pumps for power plants, safety pumps for nuclear power plants, a full series of pumps for petrochemical plants defined by the American Petroleum Institute (API), and high-pressure pumps for seawater desalination plants. Furthermore, the company has proved its quality reliability and safety by acquiring KEPIC certification, which allows pumps with nuclear power plant level safety, for the first time in Korea as well as "N" and "NPT" certifications from ASME, which are only acquired by globally renowned pump companies. In the seawater desalination field, the company has developed a containerized RO system that is exported overseas to plants in countries such as Chile, and it has also been designated as the leading developer in a government-driven recyclable seawater desalination plant supervision company for the development, construction and operation of Korea's first seawater desalination plant for power plants. The company is aggressively expanding in the Korean market as well as overseas markets, and is offering customers reliable, high-quality solutions that offer a full one-stop process covering everything from ordering to designing, producing and A/S. HYOSUNG GOODSPRINGS Inc. will continue to innovate and grow to be a leader in pump production and seawater desalination equipment.



## Chinhung International, Inc.

- Civil engineering business (Roads and pavement, Subways and railways, Bridges and tunnels, Site development, Security facilities for site organization)
- Housing business (Apartments, Mixed-used development, Villas)
- Construction business (Buildings for commercial use, Offices, Apartment houses, Education, Welfare facilities, Facilities for special purposes)

### Becoming the most reliable construction company on the strength of 60 years of know-how in building and construction A comprehensive construction company focusing on civil engineering, construction, and residential development

Chinhung International participated in development projects in Saudi Arabia, Kuwait, and Guam in the 1970s and won the Steel Tower Industrial Medal and the Construction Tower Award in recognition of its 1 billion dollars' export revenues. The company has been part of various civil engineering projects for building national infrastructure such as roads and bridges as well as construction projects that bring life to urban areas and residential development that enhances the quality of life. With its specialized residential products, Chinhung International is providing the best residential conditions for customers. As the leader in changing the construction industry's culture, it has proclaimed 'Quality Management' and 'Environmental Management' as its business slogans.



# INDUSTRIAL MATERIALS

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



## THE WORLD'S ONLY MAKER

Hyosung is the world's only manufacturer operating an integrated supply system for tire reinforcements producing and providing all core materials – tire cords, steel cords and bead wires.



## GLOBAL PRODUCTION SYSTEM

Having established an optimized global production system in various places, including China, Vietnam, US, Mexico and the EU, Hyosung is able to provide stable supply of products and timely customer services.



## EXTREME STRENGTH

Hyosung has successfully developed and commercialized ALKEX<sup>®</sup>, a dream fiber which is stronger than steel, and carbon fiber TANSOME<sup>®</sup>, 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
- Aramid Business Division
- Carbon Business Division

We assure customer safety and satisfaction through optimized cutting-edge materials

Hyosung Advanced Materials produces high-strength industrial yarn, textiles and cord materials used in automobiles, civil engineering and construction, agriculture, military, etc. It continues to reinforce its capabilities and competitiveness by developing and commercializing products such as tire cords, seatbelt yarn and airbag fabric which are already ranked No. 1 in the global market, and new materials that can lead to sustainable growth.



## Tire & Industrial Reinforcements PU

- Tire cord
- Steel cord
- Bead wire

### Global No. 1 maker for polyester tire cords / Supplying 45% of the world's passenger car tires

Tire & Industrial Reinforcements PU is the world's best tire reinforcements player providing both textile and steel reinforcements to all global major tire makers. In particular, Hyosung's polyester tire cords represent the largest market share in the world. Through long-term supply agreements with Michelin and Goodyear, it has gained recognition from global tire manufacturers for its excellence in quality. Moreover, in addition to the Ulsan Plant in Korea, Hyosung has established local production sites in many countries, including China, Vietnam, USA, and Luxembourg, which enables a stable product supply and prompt customer services. Hyosung signed a long-term supply agreement on steel cords with Michelin and Goodyear, successfully building a stable sales platform. In addition to the Gyeongju Plant in Korea, Hyosung expanded its overseas production facilities in China and Vietnam. Tire & Industrial Reinforcements PU is consolidating its position as a global tire reinforcements manufacturer by expanding overseas steel cords and bead wire production facilities in 2018.

## Technical Yarn PU

- PET yarn for seat belts
- NY 66 and PET yarn for airbag
- NY 66 and PET yarn for sewing thread
- PET yarn for broad woven coated fabric
- PET yarn for conveyor belts, rubber hoses, power transmission belts
- PET yarn for sling belt and strap

### No. 1 global market share for seatbelt yarn / No. 1 market share for technical yarn in Korea

Technical Yarn PU, which enjoys the biggest share in the world's automotive seatbelt yarn market and in Korea's technical yarn market, supplies a variety of optimized yarns used in various industrial fields such as automotive, sewing and other industrial applications. In particular, the unit developed Korea's first automotive airbag yarns made of polyester, which has a high market growth potential, and is supplying them to the world's major airbag fabric makers. In an effort to provide its customers with new value propositions and growth engines, it is striving to develop and launch new products. It is also gradually expanding its local sales and supply structure to provide differentiated services by building yarn manufacturing plants in China and Vietnam.

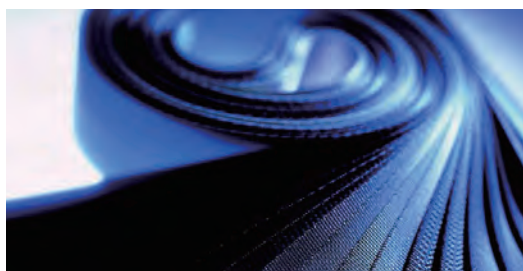
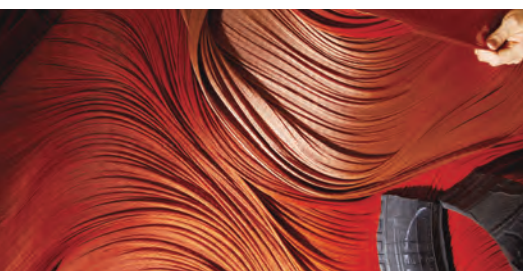
## Interior PU

- Automotive carpets : Floor carpet, Option mat
- Commercial carpets : Swan roll carpet, Swan tile carpet, Swan mat
- BCF yarn for carpet : Nylon, PET, PP

### No. 1 market share in the Korean roll and tile carpet market

#### Asia's only carpet maker with its own production facilities from yarn to finished products

Interior PU has maintained its prominent market position in both the commercial and automotive carpet in Korea. It is also Asia's only carpet maker with its own fully integrated facilities ranging from yarn to finished products. Among others, Swan Tile Carpet—one of our major products—is leading the commercial market with its unparalleled quality, which has been proven by eco-label certifications (Korea and United States) and the Korea Industrial Standards (KS) certification. Furthermore, Interior PU meets customer needs promptly, as in the case of R&D for square hollow nylon yarn that is highly contaminant-resistant and wear-resistant. As for the automotive carpet, it has offered differentiated, high-end products with a continuous product upgrade and the enhancement of noise, vibration and harshness (NVH) quality, and has acquired ISO 9001, ISO 14001, and IATF 16949 certifications, based on its complete quality control system. Especially with the development of high-quality polyester tufted carpet for automobiles, which is the first production of its kind in the world, Hyosung has been able to expand its business beyond Korea towards overseas carpet markets, including the U.S. and China, and it continues to accelerate its endeavors to carve out a robust market presence abroad.



## Aramid Business Division

### ALKEX®

- Aramid yarn for bulletproof helmets
- Aramid yarn for optical cables and ropes
- Aramid yarn for MRG (Hose & belt reinforcements and tire reinforcements)
- Aramid yarn for civil construction reinforcements
- Aramid yarn for staple (Protective clothing and gloves)
- Aramid yarn for composite

## Carbon Business Division

### TANSOME®

- Industrial applications : Pressure vessels, Construction, Automotive parts, Wind blades
- Aerospace applications : Primary & Secondary structures, Interiors, Brake discs
- Sports · Leisure applications : Golf shaft, Fishing rods, Premium bikes, Rackets, Premium boats

### Successful commercialization of Aramid fibers, aiming to advance as a solution provider

The stronger-than-steel dream fiber ALKEX®, developed by Hyosung with its proprietary technologies, helps customers grow their business and enhance their competitiveness. Boasting five times the strength of steel and fire-retardant quality without the use of flame retardants, the high-functional super fiber ALKEX® is used as the core material for bulletproof vests, helmets, vehicles, and is applied for automobile and industrial purposes. Recently, the product has been enjoying the ever-increasing demand as an effective alternative to asbestos previously used to manufacture auto brake pads and linings. To meet such an increase in demand, the division plans to increase its production capacity to 5,000 ton/year by 2021. The Aramid Business Division is committed to satisfying the needs of its customers with a wide range of products (high tenacity yarn, high modulus yarn and staple fiber) as well as differentiated products (fine denier yarn, adhesion activated yarn and hybrid tire cord yarn).

### The first commercial manufacturer of high performance grade carbon fibers in Korea

Carbon fiber is getting more attention as a core material for weight reduction due to the growing interest in energy efficiency around the world. Consisting of more than 92% of carbon, carbon fiber is a cutting-edge material which is 10 times stronger than steel, while its density is only a quarter that of steel. Korea's first high-performance grade carbon fiber, TANSOME®, is available in standard modulus grade (tensile strength of 5.5 GPa and tensile modulus above 250 GPa) and intermediate modulus grade (tensile strength of 5.5 GPa and tensile modulus above 290 GPa).

These fiber types account for over 70% of the total worldwide market demand, and are widely used as the core grade product lines in various industries, including aerospace, high performance industry and sports / leisure. To satisfy the rapid worldwide growth in demand for carbon fiber, which is more than 12% annually, the current annual production capacity of 2,000 tons will be increased to 4,000 tons by 2020. We plan to continuously expand our capacity further becoming a global top carbon fiber player by 2025.



## Global Safety Textiles (GST)

- Airbag flat fabric  
(Coated / Uncoated / High-con)
- Airbag cushion
- Airbag OPW (Coated, Laminated, X-tether)

### Global No. 1 airbag fabric maker

Global Safety Textiles(GST), which produces flat fabric, cushion and one piece woven(OPW) products, is the world's largest airbag fabric maker with a market share of 22% in the global OPW market. It achieved this through close relationships with major automotive parts companies such as Autoliv, ZF and JSS. GST delivers the world's best quality supported by its technical advantages in hi-tech weaving and cutting processes, and patents in the OPW process. In addition, GST covers the total production process of airbag and cushion manufacturing--warping, weaving, coating, cutting, sewing, and folding, and is able to meet customers' needs with a full lineup of products. With its head office in Maulburg, Germany, GST has 10 production plants in Germany, Romania, Poland, China, USA, Mexico, and South Africa. In addition, GST Germany also has R&D centers in order to develop high value-added products constantly. Through this efficient global network and R&D activities, GST is able to maximize customer satisfaction.



# CHEMICALS

· Hyosung Chemical Corporation



## HIGH-QUALITY PROPYLENE

With the introduction of a propane dehydrogenation process (DH) for propylene, the main ingredient in polypropylene (PP), stable high-purity propylene is supplied, and this allows high-quality polypropylene (PP) to be supplied globally.



## FILM MARKET EXPANSION

TAC film is an electronic material, which Hyosung developed with its self technology and commercialized for the first time in Korea. It is widely used in LCDs for TVs, computer monitors, laptops, cell phones and other electronic products. Hyosung is taking further steps by developing new films based on TAC film technology and broadening its product portfolio to include a variety of optical films.



## THE NEW MATERIAL THAT WILL LEAD THE PARTS INDUSTRY

Polyketone (POKETONE™) 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 the air pollutant CO as a raw material.

## Hyosung Chemical Corporation

- PP/DH PU
- TPA PU
- POK Business Division

- Neochem PU
- Film PU
- Optical Film PU

### The chemical material technology of Hyosung always supports convenient daily lives

Along with TPA, which is exported to Asia, Europe, the Middle East, etc., and polypropylenes (PP) including R200P, which has the world's largest market share, it produces various other chemical products such as films and fluorine gas. In particular, polyketone, which Hyosung successfully commercialized for the first time in the world, is a key material that will lead the global components industry due to its outstanding physical properties and competitiveness as a high-molecular, new material.



## PP/DH PU

· PP (Polypropylene)

### **Internationally competitive polypropylene resin TOPILENE®**

#### **Global No.1 - PP-R pipe grade**

TOPILENE® is manufactured and sold by Hyosung Chemical it represents PP, which is the most widely used among the five major general-use resins. TOPILENE® is manufactured through Japan's MITSUI CHEMICAL HYPOL process and US's DOW UNIPOL process. TOPILENE® has gained recognition for its high quality in a range of products for special purposes as well as general-use. The random copolymer products for pipes are exported widely as one of the world's best products. To secure a stable supply of the main material for polypropylene production, Hyosung supplies itself with high purity propylene from the propane dehydrogenation (DH) process where it has adopted cutting edge technology methods. From raw materials to the finished products, it has successfully established vertical integration of its supply chain.

## TPA PU

· TPA (Purified Terephthalic Acid)

### **The unit produces the highest-quality, purified TPA with advanced chemical technologies and experience**

The TPA PU produces and sells 420K M/T of high-purity TPA as an element of highly functional polyester textile, tire cords, PET bottles, polyester films, and other industrial materials for daily use. Based on its chemical expertise and experience, Hyosung produces the highest-quality and stable TPA through advanced methods and equipment that enhances the competitiveness of polyester-related manufacturers throughout Asia and Europe.

## POK Business Division

· Polyketone (POKETONE™)

### **The only eco-friendly engineering plastic with all polymer main chains consisting of carbon Excellent impact resistance, abrasion resistance, chemical resistance, fuel resistance, and gas barrier properties**

Polyketone, developed and successfully commercialized by Hyosung Chemical for the first time in the world, is an eco-friendly new polymer material composed of CO, which is the main culprit of air pollution, and olefin (ethylene, propylene), which is a petrochemical raw material. It has two times the impact strength of nylon, with a chemical resistance 30% higher than nylon; its abrasion resistance is also 10 times higher than polyacetal (POM) with the highest level, and its level of gas barrier properties is equal to ethylene vinyl alcohol (EVOH), which is superior to any other currently existing materials. Hyosung completed the construction of a commercial production plant in 2015 and it is aggressively expanding into the engineering plastic market, which is continuously achieving more than 5% annual growth.



## Neochem PU

- $\text{NF}_3$  (Nitrogen Trifluoride)
- 20%  $\text{F}_2$  /  $\text{N}_2$  mixture gas

### Producer of $\text{NF}_3$ which are used to manufacture semiconductor, display, solar products and other advanced products

Having developed high-quality Nitrogen Trifluoride ( $\text{NF}_3$  gas) used in semiconductor, display and solar industry, the Neochem PU manufactures and sells it by using professional knowhow and technical competence. The unit has consistently expanded production lines to keep pace with the growth of the semiconductor and display markets to ensure stable supply chain. The unit has promoted production of a variety of products as a special gas professional.

## Film PU

- BOPA Film (For Food/Medicine Packaging, Lithium ion Battery)
- Polyester Film (Packaging, Display and Industrial Use)

### One of Global TOP 3 Suppliers of BOPA Film / Goal to be a Global Leader

#### Strengthens basis for growth in polyester film by expanding into specialty product

As the material of outstanding features such as impact strength, anti-pinhole, printability and oxygen barrier, BOPA Film is widely used in packaging industry. Film PU produces and supplies BOPA Film with stable qualities by its accumulated technological know-how, at the same time has a wide variety of types applied in Retort, Medicine and Lithium ion Battery. To be a global leader of BOPA Film, Film PU has expanded manufacturing capacity as a Global Top 3 BOPA makers based on its new installation in Jiaxing, China in 2018.

As the material of outstanding features such as mechanical property, heat resistance and printability, polyester Film is widely used in diverse industries ranging from packaging to electric/electronic. Film PU strengthens its basis for growth with technological innovation and R&D, entering in high value-added film industry like electric & electronic component, display and super-clear window film.

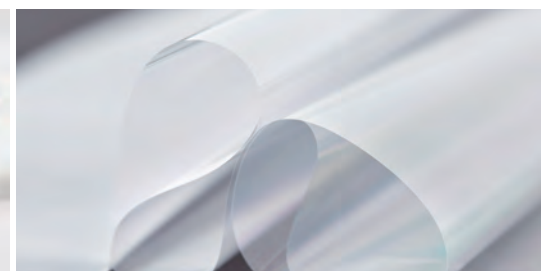
## Optical Film PU

- TAC films

### Self development and production of TAC films for polarizing plates

#### Current annual production capacity : a total of 110 million $\text{m}^2$ , with 50 million $\text{m}^2$ for the 1st TAC Plant, and 60 million $\text{m}^2$ for the 2nd TAC Plant combined

Hyosung is producing triacetyl cellulose (TAC), which protects the PVA polarizing films used within LCD polarizing plates for TV sets, monitors, laptops, and cell phones, using self developed technology. In 2009, the Optical Film PU set up a TAC film factory for LCDs in Ulsan as the only Korean company with an annual mass production capacity of 50 million  $\text{m}^2$  of TAC films. With the operation of the 2nd TAC production line completed in Oksan in 2013, the annual capacity was increased to 110 million  $\text{m}^2$ . And it has recently advanced into the Chinese market, which is emerging as the largest display market, and is expanding sales there. Also, as technologies progress in the electronic material industry, Hyosung is developing new films based on TAC film technology and broadening its product portfolio to include a variety of optical films.



# INFORMATION & COMMUNICATION

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



## FINANCIAL AUTOMATION

Based on its advanced technologies, Hyosung is consolidating its position as a global leader across financial automation 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.

- Branch transformation solution
- Banknote Recycling Machine
- Cash dispenser
- Video Banking Solution
- Multi-vendor Solution
- ATM total outsourcing
- SmileEDI
- Automated teller machines
- Teller cash recycler
- Multi function kiosks
- MoniManager
- Omni-channel Solution
- MyCashZone

### **Korea's No. 1 ATM market leader, exporting to more than 30 countries No.1 in the United States and Indonesian, Russian ATM markets**

Hyosung TNS, established in 1979, is aiming to be an innovative financial service automation total solution provider, and is becoming to a global financial IT leader by providing convenience and trust for users and profitability and competitiveness for clients. Having established Korea's first computer factory in 1980 and Korea's largest financial automation device laboratory in 1983, the company has contributed to the progress of the financial industry with its diverse solutions and advanced financial automation systems through continuous R&D and investment in technology. Hyosung TNS has been an undisputed No. 1 in the Korean ATM market. The company began exporting products in 1998 and now has the biggest share of the ATM market in the United States and Indonesia. This achievement has positioned us as a global player in over 30 countries where we export self-developed ATMs.



## Hyosung Information Systems Co., Ltd.

- Establishment and consulting services for data center infrastructure (Cloud, Big Data, Block Chain, etc.)
- Infrastructure management service
- Smart video surveillance & analysis solutions
- Big Data solution for each industry

### **Establishment and Consulting Services for Integrated ICT Environment / Supporting successful business innovation for customers by establishing an efficient ICT environment**

Hyosung Information Systems was established as Korea's first specialized IT company offering mainframes and discs to public and financial organizations, and since its establishment in 1985, it has been offering IT solutions and services to nearly 1,700 organizations in the finance, manufacturing, public service and communication industries as well as to SI companies.

Based on trust accumulated over the years and its outstanding global technological support capabilities, Hyosung Information Systems provides corporate data center infrastructure such as storage and servers, as well as platforms and services related to Big Data and block chain technology, for greater business innovation and the support of customers' business growth.



## Hyosung ITX Co., Ltd.

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

### Having Big data technology and large-scale IT Infrastructure Provides total business solution from IT Service to Contact Center

Hyosung ITX is an IT service company that provides customer-optimized business environments. With a contact center business that strategically manages communication channels, IT service business that provides a variety of network infrastructures by designing and establishing IT systems, and display solution business that provides image equipment sales and installation services, Hyosung ITX offers the comprehensive services needed by corporate businesses. The company is combining artificial intelligence (AI), big data and IoT technologies to establish efficient, intelligent services in accordance with the trends of the Fourth Industrial Revolution and making contributions to the strengthening of customer competitiveness and creating new added value.

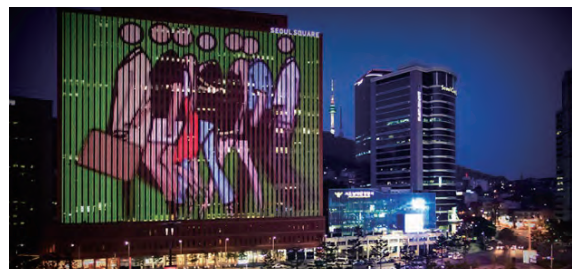


## Galaxia Electronics Co., Ltd.

### Professional manufacturer of LED display systems, construction landscape lighting and LED lighting equipment

Galaxia Electronics Co., Ltd. is a professional manufacturer of LED applications that develops and manufactures LED displays and LED lighting systems.

The company's main business activities involve the production of LED displays used as imaging devices, the design and installation of lighting for building landscapes and media façades, and household LED lighting. Its LED displays are earning raves in the global entertainment market for their clear, deep color implementation, first-in-history super-large 3D screen through new technology and reliable products. The company boasts unrivaled technical prowess, particularly in media façade design, a new area of visual and spatial art that transforms buildings into huge works of art after sunset, producing spectacular images. In addition, Galaxia Electronics produces a highly reliable full lineup of white LED lighting systems based on its strict quality control and development competence, and provides customized lighting solutions best suited to the needs of various customers through control solutions that can maximize energy reduction.



## Galaxia Communications Co., Ltd.

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

As the only Korean company with its original technology for integrated electronic payment solutions, Galaxia Communications Co., Ltd. leads both the online and offline payment markets with electronic payment service, convenience store pre-payment service, mobile commerce and financial platform services, based on its advanced technology and service competitiveness. The company has built its expertise by issuing and distributing mobile department store gift cards for the first time in Korea. It has also maintained its global competitiveness by securing the No. 1 domestic market share in the convenience store pre-payment service sectors. Based on these competitive edges, Galaxia Communications is currently offering the Money Tree service—Korea's only mobile platform through which gift cards and coupons can be freely exchanged—and growing as a comprehensive financial platform service company.



## Galaxia Device Co., Ltd.

### **Development and manufacturing of mobile device components, ATM rollers and units, optical sensors, motors, etc.**

Galaxia Device is an IT component company supplying buttons, keypads and rubber parts for mobile phones, roller and units for ATMs, etc. Galaxia Device Co., Ltd. is an IT parts and materials supplier of mobile phone keypads, ATM rollers and units, and special rubber for TV sets and touch screen panels. The company manufactures key components required in various OA devices and terminals such as mobile phones, PDAs, key phones and remote controls. In particular, for design, development, mold manufacture (internalization of core processes) and quality assurance, the company is gaining international competitiveness and has also partnered with Samsung Electronics in the wireless, printer and imaging businesses for more than 30 years. In addition, it focuses its capacity on developing competitive products, including the localization of the cash sorting and guiding unit in ATMs, the pick up roller, and the production of core ATM parts F-roller and G-roller. It also has the capacity of manufacturing competitive products, and is developing and manufacturing units and modules for various automated systems including ATM machines and check processors. In addition, the company is establishing the growth foundation to become a top-tier components company by preparing to enter new parts markets, such as sensors and motors, based on its achievements in mobile phone and ATM parts endeavors, and it is continuing research and develop core parts to lead the IoT field, which is regarded as the center of future industries.



# OTHER AFFILIATED COMPANIES

- Hyosung Capital Co., Ltd.
- 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.
- Galaxia Corporation Co., Ltd.
- Shinwha Intertek Corporation



## DIFFERENTIATED, ADVANCED FINANCING TECHNIQUES

Specializing in equipment leasing and installment financing, Hyosung Capital meets customer needs, while offering differentiated, advanced financing techniques such as installment financing, project finance, corporate loans and factoring.



## TOTAL SERVICE FOR GLOBAL AUTOMOBILE

Providing total services 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



## FIRST SPORTSWEAR FOR ATHLETES

Under Armour is the world's first functional sportswear for athletes and also the most preferred brand among athletes around the world, and it offers the most ideal conditions with innovative materials and designs.

## Hyosung Capital Co., Ltd.

- Lease financing
- Installment financing
- Loan
- Corporate financing

Hyosung Capital Co., Ltd. provides financial services to individuals and companies that need equipment lease, installment financing, mortgage loan, and equity investment through financial instruments. Since the merger in 2009 with Star Lease Company, Hyosung Capital utilized its top-tier market penetration know-how in machinery and medical equipment leasing market. Star Lease has already built up a wide range of personal financial products such as imported and domestic auto lease, installment loan for used cars and durable goods, retail financing including housing loan and stock loan. In addition, by providing various financial solutions to local small businesses for working capital loans and investment banking services, the company now has been recognized as a very competitive total credit financial company. Through the hard work of its top-tier employees, it is developing a joint venture with Hyundai Heavy Industries Co., Ltd. in China leasing market, expanding local business in domestic market, obtaining a new IT system and an industry's highest level of customer service center, providing differentiated customer service and executing advanced risk management systems. In order to achieve its vision for sustainable growth and to become a renowned 'Total Credit Solution Provider', everyone at Hyosung Capital is at their best every moment.



## The Class Hyosung Corporation

As an authorized Mercedes-Benz dealer, The Class Hyosung Corporation is guided by its philosophy of being 'The best or nothing' ('Das best oder nicht'). The Class Hyosung Corporation provides stable, unique services that can only come from a large company that has the trust of and investment by Mercedes-Benz. The Class Hyosung proudly presents its dedicated automobile showroom on Gangnam-daero. With additional showrooms in Bundang Jeongja, Songpa, Pyeongchon, Cheonan, Cheongju, Guri, Yongin Suji and Starfield Hanam the company sells the prestigious Mercedes-Benz brand from Germany. Its service centers in Gangnam-daero, Dogok, Seocho, Songpa, Jukjeon, Pyeongchon, Cheonan, Cheongju, Yongin Suji and Guri provide differentiated premium services that 'make Benz like Benz.' It also operates a showroom for Mercedes-Benz certified preowned cars, in Jukjeon. A Premium Lifestyle Provider that offers total service from initial consultation to purchasing, financing, and after-sales service - that's The Class Hyosung.



## Hyosung Toyota Corporation

Hyosung Toyota, founded in October 2009, is the official Toyota dealer in South Korea.

The company is not just selling cars, it is rushing to be customers' partner who can design a new lifestyle and experience the excitement. It manages showrooms in Seocho, Gangseo and Anyang Pyeongchon areas. It also runs service centers in Gangseo and Seocho area. And, it will continue to expand its business network. The company acquired the first 'kodawari' certification for Toyota dealers and has been operating CRM programs. Hyosung Toyota Corporation provides full customer satisfaction, thereby growing into a company that continues to be chosen by customers.



## The Premium Hyosung

The Premium Hyosung Co., Ltd. is an official dealer of Toyota Motor Korea, selling Lexus and Toyota cars in the southwestern region of Korea. Lexus provides 'the pleasure of ownership' following its mission 'to make premium cars comparable only to the best in the world.' Guided by the slogan 'Experience Amazing,' it is taking the lead in continuous brand value improvement and customer satisfaction. Toyota, a world-class automobile providing optimized value based on the motto of Customer First, is helping customers enjoy pleasant, rich lives. The Premium Hyosung Co., Ltd. runs Gwangju, Jeonju showrooms, general repair (GR) centers, and Gwangsan (BP) service center, the largest in the Honam region, to deliver high-class, differentiated services to its customers through its one-stop total service.



## Forza Motors Korea Corporation

FMK is the official importer of Ferrari and Maserati vehicles in Korea. Since its foundation in November 2007, FMK has achieved continuous growth through its endeavors to lead the Korean automotive industry based on its deep understanding of and experience with high-end brands. FMK is engaged in a wide range of activities, including the establishment of infrastructure for various high quality services, differentiated VVIP marketing activities and customer service programs. By implementing culture marketing activities that embody history of these luxury car brands, the craftsmanship, the cutting-edge technologies accumulated based on racing DNA, and Italian sensitivity, FMK promises to offer true Italian luxury brand value and experiences to Korean customers.



## Hyosung Premier Motors Corporation

Hyosung Premier Motors Corporation was established in 2016, and it is the official dealer for Jaguar-Land Rover in Busan, Ulsan, Pohang and Suncheon. In order to faithfully deliver the core values of Jaguar-Land Rover, the "British Luxury" brand, to customers, it operates the brand's largest service center, new car and used car show room in the Busan and Yeongnam area. Under the principle of "Customer First," Hyosung Premier Motors Corporation is offering differentiated premium services unique to Hyosung to Jaguar-Land Rover customers.



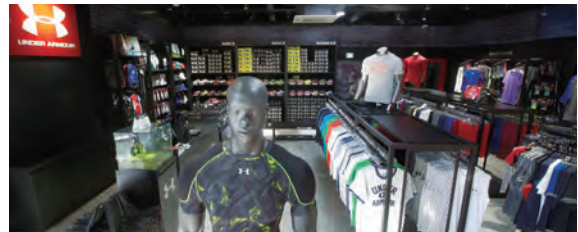
## A-seung Automotive Group Co., Ltd.

A-seung Automotive Group Co., Ltd. is the sole importer in Korea for world renowned tuning brands such as Brabus, ABT, Tech Art, and AC Schnitzer delivering both complete cars and tuning parts to the Korean market. A-seung is pioneering the tuning culture in Korea through the “one-stop” showroom and service center established in Banpo, Seoul where customers can directly experience world-class high performance vehicles.



## Galaxia Corporation Co., Ltd.

Galaxia Corporation is the official Korean distributor for the US performance sportswear brand Under Armour. The brand focuses on sports marketing for athletes under its brand mission, “To Make All Athletes Better,” and it has become Korea’s most preferred brand among athletes and sporting customers. Starting with the opening of the Cheongdam Direct Management Store in 2011, it now operates five independent stores, 64 department store sites and 10 mall stores, and Galaxia Corporation plans to continue to expand its distribution network.



## Shinwha Intertek Corporation

### Market leader in LCD TV BLU optical films and functional tape

Shinwha Intertek began its display material business in 1983 with the first mass-produced CRT TV tape, and with the start of LCD TV BLU (Back Light Unit) optical film business in 2004, the company began to grow into a display material specialist.


At present, it is regarded as the world’s leading LCD BLU optical film maker, supplying film to TV and LCD panel makers throughout the world including Samsung Electronics and LG Electronics in Korea, Taiwanese LCD panel makers, Japanese SET makers, six major Chinese SET makers, and Vestel in Europe.

Shinwha Intertek also excels in launching various products in the optical film field with its high level of technology, and it is also solidifying its position as the leader in technological trends with customer-tailored research and development.

Shinwha Intertek has quickly adapted to market and customer changes by expanding its global supply capacity and technology localization solutions with four overseas plants while continuously developing innovative and advanced new products to meet its customers’ needs.

Furthermore, it began to supply high-performing film/tape solutions for OLED as well as LCD film to Samsung Electronics starting in February 2014 and expanded its business portfolio, and the company is now preparing for new growth with next-generation products such as high color reproduction film, flexible OLED film and OCA.





**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, industrial materials, chemicals, power & industrial systems, and information & communication fields, wielding a profound effect on 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 the spirit of a pioneer.

# RESEARCH & DEVELOPMENT

· R&DB Labs

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· Power & Industrial Systems R&D Center

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· Steel Wire Technical Center

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· Technology R&D Center

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# 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, and new materials 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 to '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 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

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 waterrepellent 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-layer 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 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.
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.	2001	Developed polyester ultrathin fibers (0.2 Denier), PTT BCF carpets, and nylon film resins.
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.	2000	Developed sheath-core nylon luminous yarns, DH catalysts, HIPP, and butene random 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.	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 as it 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. In addition, the company strives to build and develop asset management solutions that provide systematic management services of facility assets combined with the fourth industry technology-based products and service systems.



## Research Areas

- Development of Interpretation Programs for Electric Power Systems
- STATCOM (STATic synchronous COMPensator)
- ESS (Energy Storage System)
- AHMS (Asset Health Management Solution)
- Voltage Type HVDC

## Research Results

<b>2018</b>	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.(AHMS 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	<b>2009</b>	100MVA STATCOM
<b>2017</b>	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)	<b>2008</b>	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
<b>2016</b>	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	<b>2007</b>	154kV gas transformers, 2MW-class wind power system
<b>2015</b>	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)	<b>2006</b>	10MVA STATCOM, GIS partial discharge diagnosis system, Power transmitter class FACTS device core parts domesticized (first in Korea)
<b>2014</b>	Renewable energy Integrated MW-class Li-Battery Energy Storage System, 20MW class Voltage Source Converter HVDC system, 150MW class Multi-Modular type STATCOM	<b>2005</b>	750kW class wind power generation systems, 100kW class fuel cell PCS, 36kV 31.5kA GIS
<b>2013</b>	Battery Energy Storage System and Micro Grid for Off-Grid island IE 4 Super Premium Synchronous Reluctance Motor	<b>2004</b>	245kV 50kA class GIS (first in Korea), 25.8kV 25kA GIS (applicable size changed, first in Korea), 24kV 40kA 3000A GIS (first in Korea)
<b>2012</b>	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	<b>2003</b>	362kV 50kA GIS (first in Korea), 154kV 80MVA UPFC (FACTS) pilot plant (first in Korea)
<b>2011</b>	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	<b>2002</b>	Substation automation system, 300kV 40kA GIS
<b>2010</b>	60kW class EV motors (applied HMC's EV test Model 'Blue-On'), Submarine Large-sized Propulsion Motor, 750kW-class DFIG type Wind Turbine PCS	<b>2001</b>	154kV 40MVA FACTS transformers, Interpolar condenser without capacitor, 170kV gas circuit breaker
		<b>2000</b>	Distribution digital protection meters
		<b>1999</b>	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)
		<b>1995</b>	Gas turbine co-generator, railcar towing motors
		<b>1992</b>	765kV transformers (first in Korea)
		<b>1987</b>	170kV 31.5kA 1200A GIS
		<b>1986</b>	Amorphous transformer (first in Korea)
		<b>1984</b>	154kV phase-separation transformers (3ph 154kV 386MVA)
		<b>1982</b>	Nuclear power plant 345kV transformers (1ph 345kV 1187MVA/Bank)

# STEEL WIRE TECHNICAL CENTER

The Steel Wire Technical Center was established in 1986 to develop production technologies for tire reinforcement materials (steel cord, bead wire) and related products. With the research technology it has accumulated over the years, it is leading tire weight reduction research with 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 center was relocated to a new facility to reinforce its fundamental technology and core capabilities in May 2007, and it is continuing to write a new chapter through endless challenges such as establishing technical centers in major overseas production plants, including in China and Vietnam, to promptly respond to customer demands. The Steel Wire Technical Center continues to strive to secure fundamental technologies for new business, which will act as a driving force for future growth, and the highest-level technology recognized by customers by establishing a secure infrastructure, for superior research facilities and talent.



## Research Areas

### Steel processing technique development

- Heat treating technology for steel
- Plating and surface treatment
- Design & optimization of wet drawing condition
- Optimized drawing process design
- Stranding mechanism

### Tire specialized research

- Eco-friendly tire reinforcements
- Hybrid tire reinforcements
- Research properties of future tires
- Development of Hyosung's only specification

### Steel wire application research

- Ultra-fine wire development
- Special material wire development
- Industrial control cable development

## Research Results

**2017** Developed the Zinc coated Steel cord for eco-friendly tire, Ultra-fine Steel wire for diamond coated wire

**2016** Developed the Ultra-fine filament Steel cord for LTR carcass

**2015** Developed the innovative cord (Hybrid cord)

**2013** Established China Technical Center, Developed high performance stranding machine

**2012** Developed fine-diameter saw wire, and diamond wire

**2011** Established Vietnam Technical Center designed and optimized the saw wire production process in Qingdao (China) plant

**2010** Designed and optimized the steel cord production process in Vietnam

**2009** Developed mono wire

**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 drawing

**2004** Optimization & designing of the steel cord production process in Qingdao (China) plant

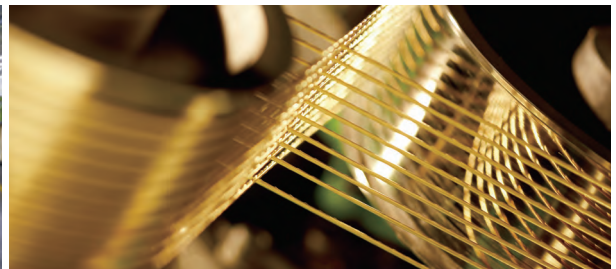
**2003** Developed a new steel cord production process improved brass plating

**1999** Development of NT (Normal Tensile, 2850 Mpa) HT (High tensile, 3300Mpa), ST (Super Tensile, 3650 Mpa) steel cord with good fuel efficiency

**1998** Developed a new bead wire production process

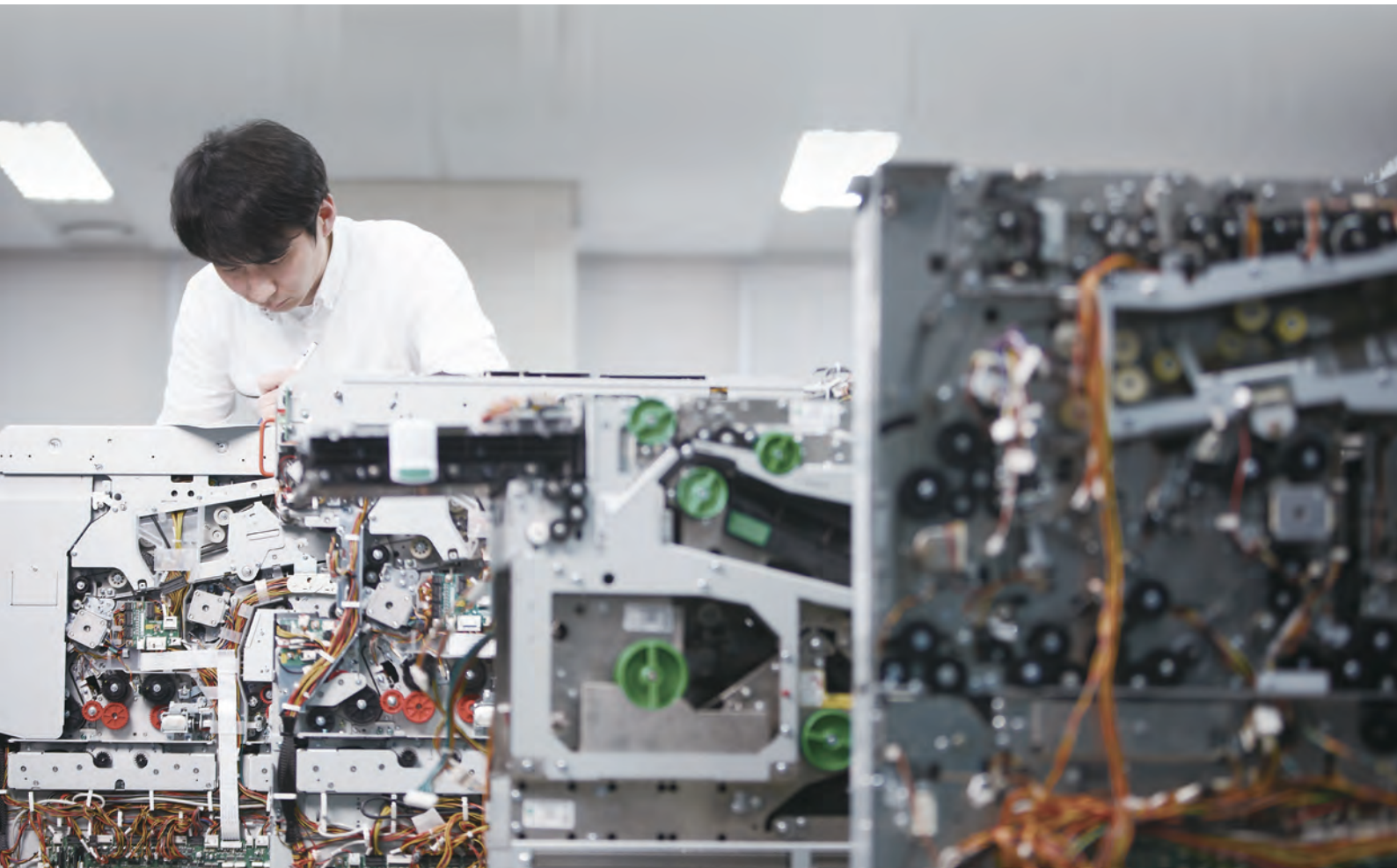
**1996** Developed technology that enhances the plating efficiency of brass

**1987** Designed and optimized the tire reinforcement production process



# TECHNOLOGY R&D CENTER

As Korea's largest financial automation device R&D Center, the center boasts independent hardware and software development technologies for creating automated devices, terminals, and core modules. Since its establishment in 1983, the Center has succeeded in implementing different countries' currency-identifying technologies and acquired standard certifications required by EMV, EPP, CEN, and UL in the international market, thereby contributing to the advancement of financial IT technology. The goal of the center is to contribute to the safety and development of the financial service industry with the world's best financial automation device technology.



## Research Areas

- ATM development (Mechanism / Electronics / Software)
- Mechatronics, new robotics technology development
- Element technical development (Control technology, Device technology, Circuit technique)

## Research Results

<b>2018</b>	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.	<b>2010</b>	Developed Island (Bunker Type) ATM, new-generation High-End CDU, selected as pilot business operator for financial service robot business (by the Ministry of Knowledge and Economy), I-PBM (inkjet bankbook printer), and industry's first Windows CE-based embedded system NDC application
<b>2017</b>	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	<b>2009</b>	Developed the new-generation circulating ATM with Korea's first BRM (Ubitus 8100), currency identification certification by Europe Central Bank
<b>2016</b>	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	<b>2008</b>	Developed the export-type cash deposit module (BNA), export-type check deposit module (BCA), kiosks, and circulating coin and banknote ATM
<b>2015</b>	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)	<b>2007</b>	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)
<b>2014</b>	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.	<b>2006</b>	Developed high-performing drive-up ATM for the US financial industry, New Lobby ATM for Chinese ISO market (NH 5050) and new banknote multifunctional ATM (T2 ATM)
<b>2013</b>	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	<b>2005</b>	Developed bill payment systems for export to Mexico and automatic cash dispenser for export to China (MX 5600)
<b>2012</b>	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	<b>2004</b>	Developed bank statement printer (A4 Size) and wall-mountable type ATM
<b>2011</b>	Developed export-type check/cash deposit integrated module (CCIM), New Branch Solution (Hybrid ATM), circulating ATM with Global BRM (8000A, 8000TA), CEN Grade III -certified in the safe security sector, trial-operated the kiosk robots for Korea Racing Authority (KRA)	<b>2003</b>	Developed wall-mountable-type and drive-up automatic cash dispenser and giro bill payer
		<b>2002</b>	Developed high-performing automatic teller machine (T1 ATM) and automatic cash dispenser for export to the US (MB 1500)
		<b>2001</b>	Developed desk-type automatic cash dispenser (NanoCash-3000)
		<b>2000</b>	Developed desk automatic cash dispenser (NanoCash-2000), VAN CD
		<b>1999</b>	Developed automatic cash dispenser for export to the US (MB-3000)
		<b>1998</b>	Developed automatic cash dispenser for export to the US (Mini Bank)
		<b>1997</b>	Developed export-type cash dispensing unit (CDU-M)
		<b>1996</b>	Developed circulating automatic cash deposit and dispensing machine (RATM) and branch server (Branch Processor)
		<b>1995</b>	Developed non-circulating automatic cash deposit and dispensing machine (ATM)
		<b>1994</b>	Developed cash and check dispenser (CD) and bankbook printer



## Redefining and Leading Corporate Social Responsibility

Hyosung is actively participating in social contribution activities to share profits with the community and consequently enrich society. It endeavors to fulfill corporate social responsibility by 'Creating a Social Ecosystem' (CSE), which tries to build a harmonious partnership with its stakeholders.

### HYOSUNG CSE (Creating Social Eco-system)

Hyosung is shifting from Corporate Social Responsibility (CSR), which focuses on monetary donations, to Creating a Social Ecosystem (CSE) that leads changes in the social ecosystem. By introducing the CSE concept to traditional CSR, the company is taking the lead in establishing an effective and sustainable social model based on close collaboration among companies, citizens, and government.



# CREATING SOCIAL ECO-SYSTEM

• Eco-Conscious Management

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• Sharing-Based Management

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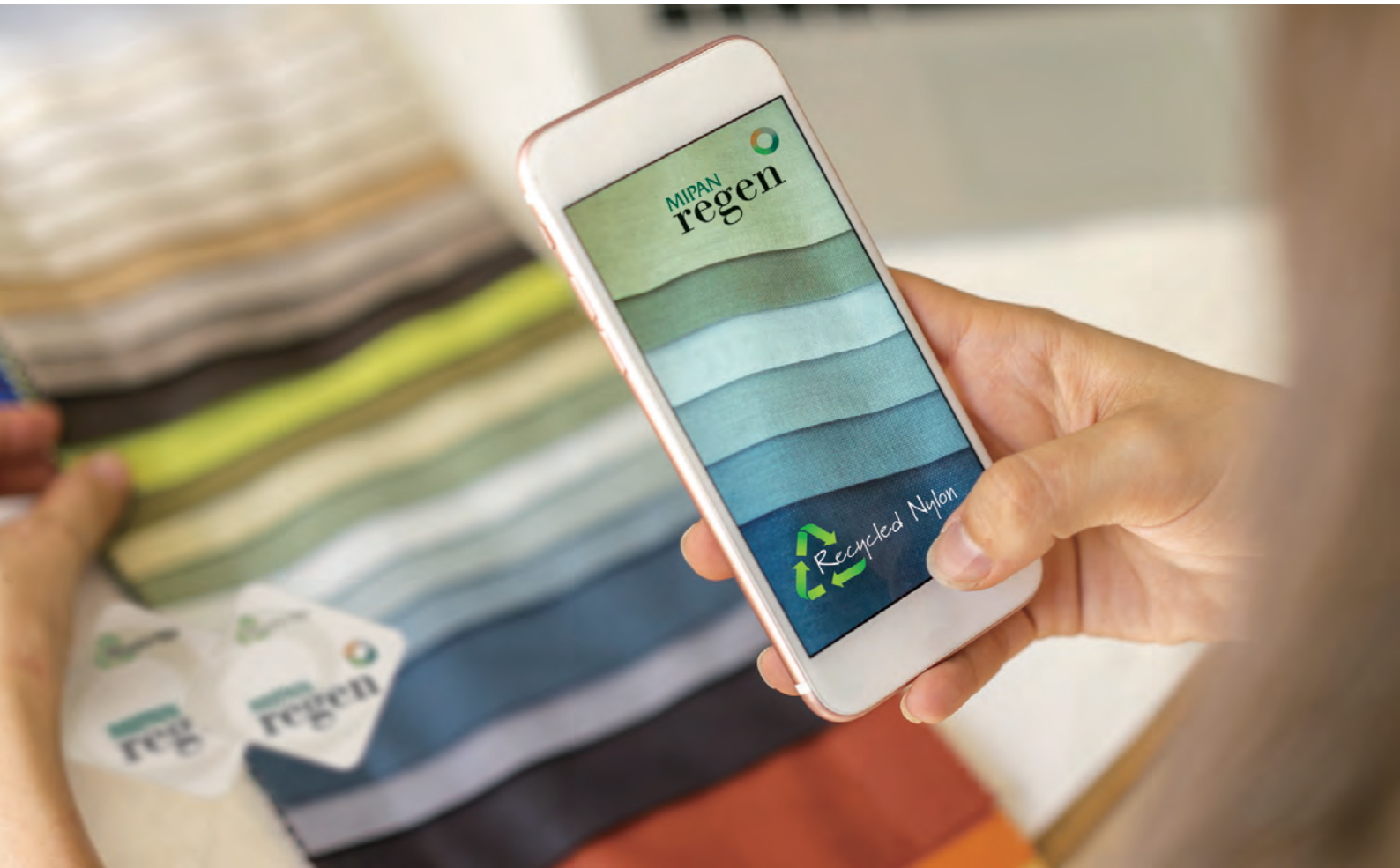
• Ethics Management

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# ECO-CONSCIOUS MANAGEMENT

Hyosung pursues a clean environment and a healthy future

The blue sky, warm sunshine, clean water, and refreshing wind... Our life is richer and healthier with the benefits we receive from the environment. Hyosung is committed to fulfilling its social responsibility of preserving our precious environment and living up to our belief in environmental sustainability for a cleaner tomorrow.



## Environmental Protection

### CO<sub>2</sub> Reduction, High-efficiency Energy Waste Disposal and Recycling

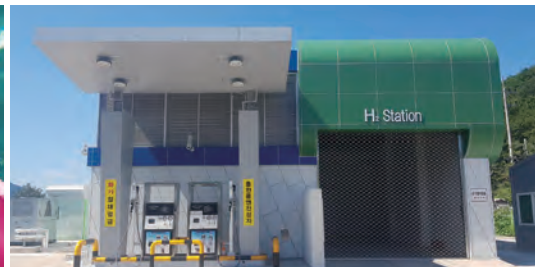
The increasing level of pollution is continuously threatening life on Earth. Hyosung is leading the field in developing core technologies that reduce energy waste and carbon dioxide generation for a low-carbon, green growth era including high-efficiency electronic pumps, energy storage devices, H<sub>2</sub> / CNG filler equipment, LED, low-temperature processed yarn, etc.

In addition, it provides environmentally friendly technologies that purify polluted environments and recycle waste resources and, thereby, contributes to revitalizing the Earth's health and restoring clean living environments. Hyosung continues to develop environmentally friendly technologies, such as wastewater processing, methane gas recycling, environment- friendly yarn, etc.

- Recycled Yarn Regen®
- Low Heat Settable Spandex Yarn
- Energy Storage System
- Eco-friendly Cubicle type Gas Insulated Switchgear (C-GIS)
- Smart Grid (Intelligent Power Network System)
- Premium Efficiency Motors
- High-efficiency Pump
- H<sub>2</sub> / CNG Filling Facilities
- Wastewater Treatment Facilities
- LED



**30%**  
GHG emission  
projection for  
2020 BAU



# SHARING-BASED MANAGEMENT

## Happiness doubles when shared

Under the slogan “Be Together through Sharing”, Hyosung endeavors to fulfill social responsibilities as a corporate citizen by establishing mid- and long-term strategies with the vision “Hyosung supports beneficiaries to explore their future on their own through education and sharing.” Hyosung’s corporate social responsibility (CSR) activities are based on three main pillars: Support for the Vulnerable; Sponsorship for Culture and Arts; and Support for Patriots and Veterans. The continuous, varied efforts are not limited to national boundaries — we are reaching further out to various parts of the world as well.



## Social Contribution

### Support for the Vulnerable

#### Domestic Sharing

- Sharing of Rice of Love, Kimchi of Love, and daily necessities
- Sponsor of the Mapo-gu Hope Sharing Festival

#### Support for Children with Disability / Low Income Groups

- Operation of Hyosung Volunteer Work Group
- Support for Rehabilitation Treatment and Family Healing Camp for Children with Disability
- Support for Disadvantaged Women Employment Vitalization Program

#### Social Enterprise Support

- Support for Eunpyeong and Sebitseom branches of Goodwill Store
- Support for social enterprises creating new jobs

#### Global Sharing

- Free Medical Treatment Project in Vietnam (Miso Expedition Group)
- Sponsorship program for isolated areas overseas

#### Others

- Volunteer work by new recruits (Sharing Coal Briquettes of Love / Volunteer work to support Senior citizens who live alone)
- Disaster Recovery Support Funds (typhoon, fire, etc.)
- Sponsorship of for the "Forest Conservation" Project for Noeul Park



### Culture and Arts Sponsorship

- Music Education for Children with Disability
- Sponsorship of the Musical for Preventing Violence
- Support for Artists with Disability
- Sponsor of the Barrier-Free Film

### Support for Patriots and Veterans

- Sponsorship of Korean War Veterans (Houses for Patriots)
- One company to one grave volunteer work (Seoul, Daejeon, Yeongcheon)
- Donation of book cafés at military bases
- Sponsorship of Armed Forces Commemorative Musical



# ETHICS MANAGEMENT

Integrity and trust are our primary management principles

To ensure that we manage our business with integrity and transparency, we at Hyosung established a code of ethics that presents a wholesome standard based on which our staff can make upright and ethically sound decisions at all times. We keep our corporate culture sound and upright and fulfill our social responsibility to play the role of a respected global corporation.



## Management Principles

### Compliance with Laws and Regulations

**“We thoroughly comply with laws and company regulations.”**

- We respect national policies and comply with all laws and social and ethical norms.
- We thoroughly comply with the company’s management policy and all rules and fulfill our duties and responsibilities.
- We are committed to continuously creating jobs with the sound profit generation and fulfill our basic duties and responsibilities faithfully as members of society.

### Respect for Customers

**“We exists to provide the values that satisfy our customers.”**

- We prioritize customer’s trust.
- We provide differentiated quality and services that satisfy customers.
- We make efforts to establish a culture of transparent and fair trade with customers and are committed to developing sound partnerships.

### Respect for Shareholders

**“Shareholders are the owners of the company, and the trust of shareholders is its absolute foundation.”**

- We increase the profits of shareholders and investors by improving management performance through value creation.
- We practice reasonable and transparent management to be a trustworthy company for our shareholders and investors.
- We respect the rights of shareholders and investors and provide information necessary for profit realization in a timely manner.

### Respect for Employees

**“Employees are the most important asset of the company.”**


- We are committed to respecting one another and establishing a rational and sound corporate culture based on mutual trust and understanding.
- We create a workplace where each individual can freely demonstrate his or her creativity and promote a pleasant working environment.
- We do not discriminate against employees for reasons of educational background, place of origin, gender, age and religion.

### Socially Responsible Management

**“A company should grow in harmony with society as one of its important members.”**

- We endeavor to fulfill the duties and responsibilities expected from society and strive for co-prosperity and development with corporate social responsibility (CSR) activities.
- We are committed to becoming an eco-friendly company and to garnering respect from society.





## 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 35 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.

HYOSUNG

# ABOUT HYOSUNG

· [Brief History](#)

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· [Global Network](#)

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# BRIEF HISTORY

We are progressing with the spirit of a pioneer

Hyosung has played the role of a dynamic locomotive behind the Korean economy. Having been 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

2019	Completion of Conversion to Holding Company System / Expansion of Jeonju Carbon Fiber Plant / Establishment of Production Technology Center	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 Jiaxing, China
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	2004	Spandex plant completed in Zhuhai, China, distribution transformer plant completed in Baoqing, China, tire cord plant completed in Jiaxing, 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
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	2003	The Class Hyosung Corporation established, Hyosung Spandex (Guangdong) Co., Ltd., established, Hyosung Thin Film (Jiaxing) Co., Ltd., established
2016	Completed GIS plant construction in India began Quzhou NF <sub>3</sub> plant construction in China, and completed the construction of an automotive floor carpet factory in Qingdao, China	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
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	2001	Adopted ERP, an advanced management system, China Spandex plant completed, Signed long-term PET bottle supply contract with Beijing Coca-Cola
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.	2000	Gumi Spandex plant completed
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	1999	Hyosung Computer received KT Mark for ultra-high pressure gas insulating switch and polyester yarns (Aerocool)
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	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
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	1996	Daejeon nylon film plant completed
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	1995	China PET bottle plant and Daejeon tile carpet plant completed
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	1992	Anyang Plant started manufacturing Spandex
2008	Turkey Spandex plant completed, acquired China Nantong Youfang Transformers Ltd., and acquired Chin Hung International Inc.	1990	Started Spandex business
2007	Yongyeon NF <sub>3</sub> 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	1989	Started PP and propylene business, Hyosung Ebara established
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	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



# 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 up a global network based on localigation strategies, and this has been the growth engine that has allowed Hyosung to become a global company where 70% of its profit is 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

**77** business site in **15** countries

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

#### Europe & Africa

**18** business site in **10** countries

GERMANY	ITALY
LUXEMBOURG	POLAND
ROMANIA	RUSSIA
SPAIN	TURKEY
UK	SOUTH AFRICA

#### America


**19** business site in **4** countries

USA	BRAZIL
MEXICO	PANAMA

### Production Network

 Domestic	Overseas
<b>16</b> Plants	<b>35</b> Manufacturing Entities

### Marketing / R&D Network

 Domestic	Overseas
<b>5</b> R&D Centers	<b>28</b> Trading Entities <b>29</b> Trading Offices



# WORLD WIDE HYOSUNG MAP

## AMERICA\_



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



**IRVING (USA)**  
Nautilus Hyosung America, Inc.



**SOUTH HILL (USA)**  
GST LLC - South Hill



**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



**MAULBURG (GERMANY)**  
GST GmbH - Maulburg



**BAD SÄCKINGEN (GERMANY)**  
GST GmbH - Bad Säckingen



**MURG (GERMANY)**  
GST GmbH - Murg



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



**CZESTOCHOWA (POLAND)**  
GST Automotive Safety Poland Sp. z o.o.



## America

19 business site in 4 countries

- USA
- BRAZIL
- MEXICO
- PANAMA



**Europe & Africa**

18 business site in 10 countries

- GERMANY
- LUXEMBOURG
- ROMANIA
- SPAIN
- UK
- ITALY
- POLAND
- RUSSIA
- TURKEY
- SOUTH AFRICA

**SOUTH AMERICA**

- Sao Paulo
- Santa Catarina

**ASIA**

- Riyadh
- Doha
- Abu Dhabi
- Dubai
- Gurgaon
- Mumbai
- Aurangabad
- Pune
- Chennai

**AFRICA**

- Johannesburg
- Hammersdale

Overseas

35

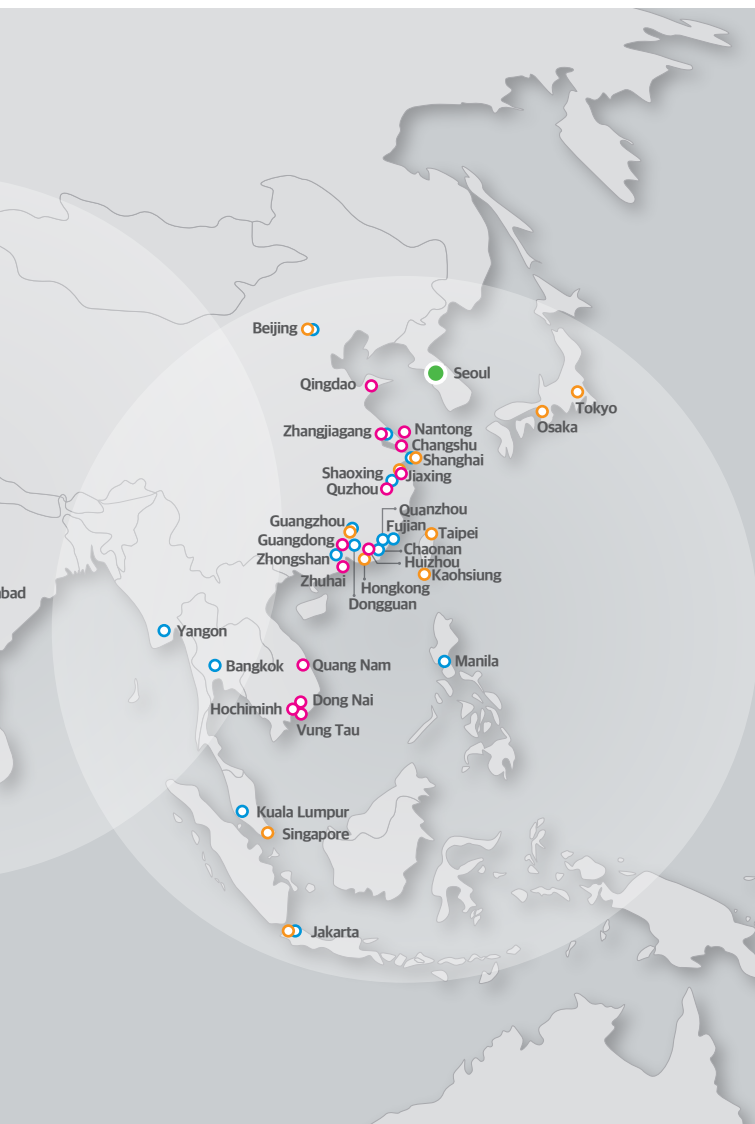
Manufacturing  
Entities

28

Trading  
Entities

29

Trading  
Offices



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

77 business site in 15 countries

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

Domestic

16

Plants

5

R&D Centers



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



**SEJONG PLANT**  
Welding machine,  
PV inverter



**HGS CHANGWON PLANT**  
Pumps

INDUSTRIAL MATERIALS\_



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



**ANYANG PLANT**  
Rolled carpets, Car mat,  
Nylon BCF



**GYEONGJU PLANT**  
Steel cords



**DAEJEON PLANT**  
Tile carpets, Mat, PP BCF



**JEONJU PLANT**  
Carbon fibers

CHEMICALS\_



**YONGYEON PLANT**  
PP/DH, TPA, Polyketone, NF<sub>3</sub>  
TAC films, PET films



**DAEJEON PLANT**  
BOPA films



**GUMI PLANT**  
PET films, BOPA films



**OKSAN PLANT**  
TAC films

INFORMATION & COMMUNICATION\_



**HYOSUNG TNS GUMI PLANT**  
ATM

# BUSINESS DIRECTORY

## Domestic

### TEXTILE / TRADING

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**Hyosung TNC Corporation**  
www.hyosungtncc.com

#### Textile HQ

(04144) 119 Mapodaero, Mapo-gu, Seoul  
(Gongdeok-dong)  
T. 82-2-707-7000 F. 82-2-707-7799

#### Ulsan Plant

(44781) 30 Nabdoro, Nam-gu, Ulsan-si (Maeam-dong)  
T. 82-52-278-7000 F. 82-52-261-6180

#### Anyang Plant

(14080) 74 Simindaero, Dongan-gu, Anyang-si,  
Gyeonggi-do (Hogye-dong)  
T. 82-31-428-1000 F. 82-31-452-4175

#### Gumi Plant

(39404) 108 3 Gongdan2-ro, Gumi-si, Gyeongbuk  
(Simi-dong)  
T. 82-54-470-9114 F. 82-54-470-9019

#### Daegu Plant

(42701) 45 55-gil, Seongseogongdan-ro, Dalseo-gu,  
Daegu-si (Jang-dong)  
T. 82-53-589-7084 F. 82-53-589-7000

#### Daegu Office

(41931) Suite 601, 488 Gukchaebosangro, Jung-gu,  
Daegu-si (Dongsan-dong, Textile Hall)  
T. 82-53-251-2525 F. 82-53-252-4135

#### Busan Office

(47288) 7F, Hyosung XN CITY, 39, Seomyeon-ro,  
Busanjin-gu, Busan  
T. 82-51-634-4111 F. 82-51-643-9837

#### Trading HQ

(06578) 235 Banpodaero, Seocho-gu, Seoul-si  
(Banpo-dong)  
T. 82-2-707-7114 F. 82-2-707-8517

#### 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) 683, Olympic-daero, Seocho-gu, Seoul  
T. 82-1566-3433 F. 82-2-3477-5809

#### Hyosung Transworld Co., Ltd.

www.hyosungtransworld.com

#### Seoul Office

(04168) 3F A Block 92, Mapo-daero, Mapo-gu, Seoul  
(Dohwa-dong, Hyosung Harrington Square)  
T. 82-2-707-8709 F. 82-2-707-8796

### POWER & INDUSTRIAL SYSTEMS / CONSTRUCTION

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**Hyosung Heavy Industries Corporation**  
www.hyosungheavyindustries.com

#### Power & Industrial Systems HQ

(04144) 119 Mapodaero, Mapo-gu, Seoul  
(Gongdeok-dong)  
T. 82-2-707-7000 F. 82-2-707-7799

#### Changwon Plant

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

#### Sejong Plant

(30058) 142 Gongdanro, Yeongi-myeon, Sejong-si  
(Yeongi-ri)  
T. 82-44-860-3114 F. 82-44-860-3113

#### Construction HQ

(06714) 9 Myeongdalo, Seocho-gu, Seoul-si  
(Bangbae-dong)  
T. 82-2-707-5928 F. 82-2-707-4401

#### HYOSUNG GOODSPRINGS Inc.

www.hsgoodsprings.com

#### HQ

(04144) 119 Mapodaero, Mapo-gu, Seoul  
(Gongdeok-dong)  
T. 82-2-707-7000 F. 82-2-3279-8200

#### Changwon Plant

(51559) 303 Gongdanro, Seongsan-gu, Changwon-si,  
Gyeongnam (Wungnamdong)  
T. 82-55-279-7607 F. 82-55-281-0092

#### Ulsan Office

(44667) 241, Daegongwon-ro, Nam-gu, Ulsan (Rm.  
405, Sinjeong-dong)  
T. 82-52-273-5400 F. 82-52-273-5410

#### Yeosu Office

(59638) 77 Daetong 3-gil, Yeosu-si, Jeonnam  
(Hwajang-dong)  
T. 82-61-692-6152 F. 82-61-692-6154

#### Daesan Office

(31710) 9, Yugok 2-gil, Songsan-myeon, Dangjin-si,  
Chungcheongnam-do (5F Hyundai Plaza)  
T. 82-41-352-8237 F. 82-41-352-8297

#### Chinhung International, Inc.

www.chinhung.co.kr

#### Seoul Office

(04332) 27 Huamro, Yongsan-gu, Seoul (Huam-dong)  
T. 82-2-772-1200 F. 82-2-754-2972

### INDUSTRIAL MATERIALS

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**Hyosung Advanced Materials Corporation**  
www.hyosungadvancedmaterials.com

#### HQ

(04144) 119 Mapodaero, Mapo-gu, Seoul  
(Gongdeok-dong)  
T. 82-2-707-7000 F. 82-2-707-7799

#### Ulsan Plant

(44781) 30 Nabdoro, Nam-gu, Ulsan-si (Maeam-dong)  
T. 82-52-278-7000 F. 82-52-261-6180

#### Anyang Plant

(14080) 74 Simindaero, Dongan-gu, Anyang-si,  
Gyeonggi-do (Hogye-dong)  
T. 82-31-428-1000 F. 82-31-452-4175

#### Gyeongju Plant

(38209) 190, Munsangongdan-gil, Oedong-eup,  
Gyeongju-si, Gyeongsangbuk-do  
T. 82-52-255-5114 F. 82-52-262-5150

#### Daejeon Plant

(34302) 90 18 Beongil, Munpyeongseoro,  
Daedeok-gu, Daejeon-si (Munpyeongdong)  
T. 82-42-932-6187~9 F. 82-42-932-8270

#### Jeonju Plant

(54849) 886 Girin-daero, Deokjin-gu, Jeonju-si,  
Jeonbuk (Dongsan-dong)  
T. 82-63-281-5425 F. 82-63-281-5413

### CHEMICALS

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#### Hyosung Chemical Corporation

www.hyosungchemical.com

#### HQ

(06578) 235 Banpodaero, Seocho-gu, Seoul-si  
(Banpo-dong)  
T. 82-2-2146-5500 F. 82-2-707-7799

#### Yongyeon Plant 1

(44784) 66 487 Beongil, Cheoyongro, Nam-gu,  
Ulsan (Seongam-dong)  
T. 82-52-208-9000 F. 82-52-208-9220

#### Yongyeon Plant 2

(44784) 65 487 Beongil, Cheoyongro, Nam-gu,  
Ulsan (Seongam-dong)  
T. 82-52-208-9000 F. 82-52-208-9999

#### Yongyeon Plant 3

(44784) 130 Yongyeonro, Nam-gu, Ulsan-si  
(Yongyeon-dong)  
T. 82-52-208-9000 F. 82-52-208-9720

**Daejeon Plant**

(34325) 85 17 Beongil, Sinilseoro, Daedeok-gu,  
Daejeon-si (Sinil-dong)  
T. 82-42-349-9606 F. 82-42-349-9611

**Gumi Plant**

(39404) 108 3 Gongdan2-ro, Gumi-si, Gyeongbuk  
(Simi-dong)  
T. 82-54-470-9009 F. 82-54-470-9019

**Oksan Plant**

(28101) 99, Oksan Sandan-ro, Oksan-myeon, Heung  
Deok-gu, Cheongju-si Chungbuk (Hojeong-ri)  
T. 82-43-249-3600 F. 82-43-249-3899

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**INFORMATION & COMMUNICATION**


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**Hyosung TNS Inc.**

www.hyosung-tns.co.kr

**HQ**

(06349) Suseo Bldg, 281, Gwangpyeong-ro,  
Gangnam-gu, Seoul (Suseo-dong)  
T. 82-2-6181-2114 F. 82-2-6181-2222

**Gumi Plant**

(39416) 179-15 Okgye2gongdanro, Gumi-si,  
Gyeongbuk (Gupo-dong)  
T. 82-54-470-3114 F. 82-54-470-3019

**Hyosung Information Systems Co., Ltd.**

www.his21.co.kr

**HQ**

(06071) 524, Dosan-daero, Gangnam-gu, Seoul  
(8F Cheongdam Bldg, Cheongdam-dong)  
T. 82-2-510-0300 F. 82-2-547-9998

**Busan Office**

(48058) Room 1303, 30, Centum seo-ro,  
Haeundae-gu, Busan (U-dong, KNN Tower)  
T. 82-51-463-7805 F. 82-51-463-7805

**Daegu Office**

(41252) 47, Hwarang-ro, Dong-gu, Daegu  
(3F KOSCA Bldg., Sincheon-dong)  
T. 82-53-426-9800 F. 82-53-426-9830

**Seobu Office**

(35233) Room 702, Gounso Building, 59,  
Dunsanse-ro, Seo-gu, Daejeon  
T. 82-42-485-4856 F. 82-42-484-0366

**Gwangju Office**

(61947) 112, Sangmuyeonha-ro, Seo-gu, Gwangju  
(3F Jegalryang Bldg., Chipyeong-dong)  
T. 82-62-385-2193 F. 82-62-385-2194

**Suwon Office**

(16676) 181-1, Samsung-ro, Yeongtong-gu, Suwon-si,  
Gyeonggi-do (3F R7 Bldg., Maetan-dong)  
T. 82-31-216-8717-8 F. 82-31-216-8719

**Hyosung ITX Co., Ltd.**

www.hyosungitx.com

**HQ**

(07212) 15F Ire Bldg, 57 Seonyudong2ro,  
Yeongdeungpo-gu, Seoul-si (Yangpyeong-dong 4ga)  
T. 82-2-2102-8400 F. 82-2-2102-8424

**Galaxia Electronics Co., Ltd.**

www.galaxialed.com

**HQ**

(16642) 50 132 Beongil, Omokcheonro, Gwonseon-gu,  
Suwon-si, Gyeonggi-do (Gosaek-dong)  
T. 82-31-8060-8908 F. 82-31-278-2214

**Galaxia Communications Co., Ltd.**

www.galaxiacommunications.co.kr

**HQ**

(06349) Suseo Bldg, 281, Gwangpyeong-ro,  
Gangnam-gu, Seoul (Suseo-dong)  
T. 82-1566-0123 F. 82-2-512-1759

**Galaxia Device Co., Ltd.**

www.galaxiadevice.com

**HQ**

(16642) 50 132 Beongil, Omokcheonro, Gwonseon-gu,  
Suwon-si, Gyeonggi-do (Gosaek-dong)  
T. 82-31-548-9329 F. 82-31-548-9626

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**OTHER AFFILIATED COMPANIES**


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**Hyosung Capital Co., Ltd.**

www.hyosung-capital.co.kr

**HQ**

(06054) 306 Dosan-daero, Gangnam-gu, Seoul  
(Nonhyeon-dong)  
T. 82-1588-9688 F. 82-2-511-3318

**Busan Branch**

(47288) Suite 703, Hyosung Accency, 39  
Seomyeonro, Busanjin-gu, Busan-si (Bujeon-dong)  
T. 82-51-605-3920 F. 82-51-819-0680

**Daegu Branch**

(42117) 13F Samhee Bldg., 2388 Dalgubeoldaero,  
Suseong-gu, Daegu-si (Beomeo-dong)  
T. 82-53-749-3943 F. 82-53-742-8517

**The Class Hyosung Corporation**

www.theclashyosung.com

**HQ**

(06258) 284 Gangnamdaero, Gangnam-gu, Seoul-si  
(Dogok-dong)  
T. 82-2-575-7500 F. 82-2-575-7530

**Hyosung Toyota Corporation**

www.hyosungtoyota.com

**HQ**

(06671) 43 Banpodaero, Seocho-gu, Seoul-s  
(Seocho-dong)  
T. 82-2-520-5500 F. 82-2-520-5599

**The Premium Hyosung Co., Ltd.**

www.hyosunglexus.com

**HQ**

(61965) 881 Sangmudaero, Seo-gu, Gwangju-si  
(Ssangchon-dong)  
T. 82-62-384-7733 F. 82-62-384-7722

**Forza Motors Korea Corporation**

www.ferrari.co.kr / www.maserati.co.kr

(06062) 2F, Baegyong Cheongdam Building, 456,  
Dosan-daero, Gangnam-gu, Seoul (Cheongdam-dong)  
T. 82-2-3433-0808 F. 82-2-515-3547

**Hyosung Premier Motors Corporation**

www.hyosung.landroverkorea.co.kr

**HQ**

(47512) 297, Geoje-daero, Yeonje-gu, Busan  
(Goeje-dong)  
T. 82-51-250-1400 F. 82-51-250-1401

**A-Seung Automotive Group Co., Ltd.**

www.asag.co.kr

**HQ**

(06578) 235, Banpo-daero, Seocho-gu, Seoul  
(1F Banpo Hyosung Building, Banpo-dong)  
T. 82-2-554-8296 F. 82-2-508-8139

**Galaxia Corporation Co., Ltd.**

www.galaxiacorp.com

(06071)10F Cheongdam Bldg, 524 Dosan-daero,  
Gangnam-gu, Seoul (Cheongdam-dong)  
T. 82-1577-6991 F. 82-2-3496-8449

**Shinwha Intertek**

www.shinwha.com

(31257) 308, Maebong-ro, Byeongcheon-myeon,  
Dongnam-gu, Cheonan-si, Chungcheongnam-do  
T. 82-41-590-3300

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**HRD CENTER**


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