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MACHINERY & AUTOMOTIVES

Machinery & Parts • Hardware • Auto Parts • Auto Accessories • Auto Repair Equipment

03

March 2025
(Issue 585)

General Machinery & Automobiles Boosting Exports

Introducing Selected Exporters

Eco-friendly Heat Insulation Material



The 4R insulation blanket is the company's eco-friendly heat-insulating material, which protects various kinds of high-temperature products such as pipes, flanges, valves, and turbines from outside environment. It delivers superior capacity in tackling temperature loss and in freeze protection, and in the prevention of workers safety accidents.

This product is manufactured into an all-in-one of interior and exterior materials on existing equipment or devices in order to ensure resource saving and economical energy use, thereby enabling easy installation and breakup for operators and permitting recycling. Recently, Ecopowertec has taken a step forward for fire safety by developing a new insulation material that can extinguish fire and prevent flame spread. Toward becoming a world-class company in the field, Ecopowertec is serving its customers with innovative technology and superior quality products through ceaseless technology development. And also Ecopowertec is expanding the selling route of its products into both domestically and overseas.

We provide excellent products and services to our customers based on innovation and challenging spirit. We will do our best to become a company that provides greater satisfaction.



Ecopowertec Co., Ltd.

A 911, 12, Dongbu-ro 169beon-gil, Jinju-si, Gyeongsangnam-do, Republic of Korea

Tel: (82-32)710-1525 Fax:(82-70)8673-2450 E-mail: info@ecopowertec.kr Website: eng.ecopowertec.kr

INQ No. N612

Based on about 130 patents, utility model rights, design rights and trademarks, Kwang Pung has the technical capabilities to manufacture the following machines not only for domestic use but also for export to other countries such as India, Egypt and so on. We are an agricultural machinery company specializing in sales of wide rotaries for power tillers, bean threshing machines, auto seeding machines and soil pulverizers. We also manufacture selectors, washers and shellers for chestnuts, walnuts and ginkgos. The product(JK-3000) can conduct the processes of box input-bed soil-water spraying-seedling-covering up the seed with soil simultaneously and sows massive amount promptly saved labor cost and enhanced work efficiency through fully automated processes. Our aim is to continue producing machines that could improve the lives of those people who belong to the agricultural sector of the society.



Auto Nursery Seeding Machine (JK-3000)



Handheld seeder [JK-5]



Seed Polishing Sorter (MD600)



Kwang Pung Co., Ltd.

232, Geumgwang-ro, Iin-myeon, Gongju-si, Chungcheongnam-do, Korea
 Tel. 82-41-856-9924 Fax. 82-41-856-2600 E-mail. kp9627@naver.com www.kpung.co.kr **INQ No. N514**

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- 3. SPACE SAVING Type:** Light foldable bicycle easy to carry or store on a subway or a bus or in a crowded city when moving
- 4. CITY Type:** Cute motorcycle with sophisticated and simple design perfect for any country and any city.
- 5. European Type:** Design specialized electric motorcycle with sophisticated design and good gas mileage perfect in any European city. It is developed for people preferring reasonable price and sophisticated design.
- 6. Sports Type:** Motorcycle that people who want to enjoy speed and show off choose.
- 7. Motorcycle with light, simple design.** Electric motorcycle developed through optimized design so that people can travel a short distance comfortably
- 8. City Type (tricycles):** Electric tricycles which can be used as means of transportation for 4 seasons in the city. It is designed considering drivers for its design and space as much as a small car is associated with.
- 9. SILVER Type:** Tricycle for transporting and safe trip of the elder. It is an electric motorcycle developed focusing on storage space, safety and convenience.
- 10. SPECIAL PURPOSE Type:** Electric motorcycle designed for a special purpose. It is an electric motorcycle or an electric car for a special purpose which is custom-built for characteristics of a product a customer deals with.



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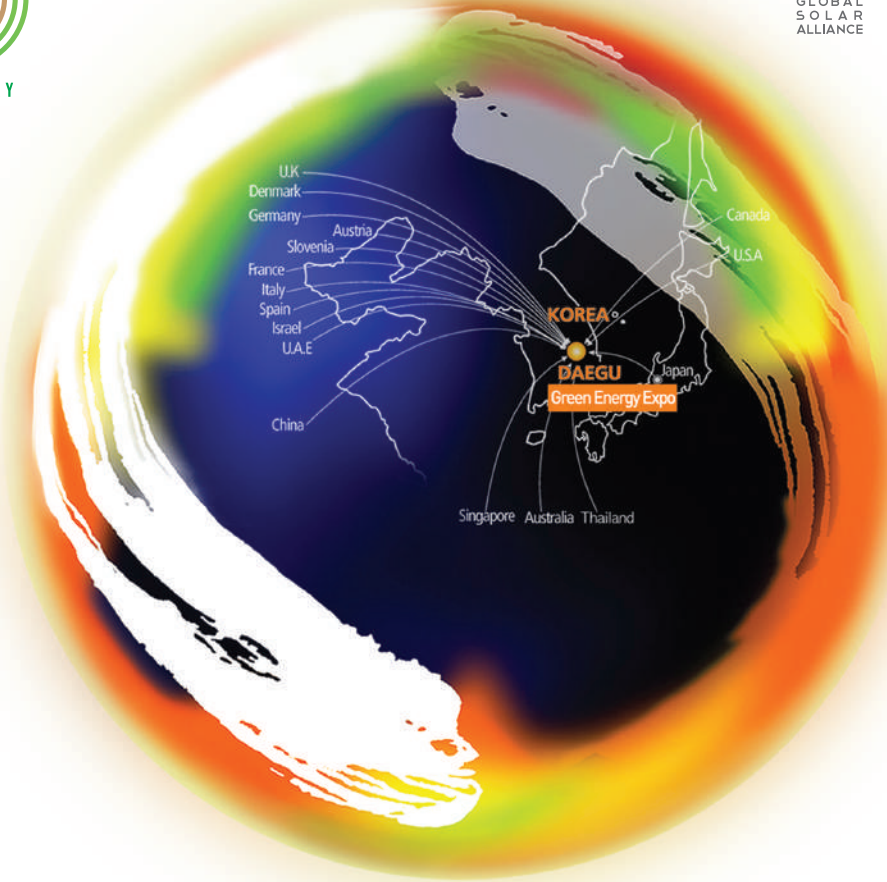
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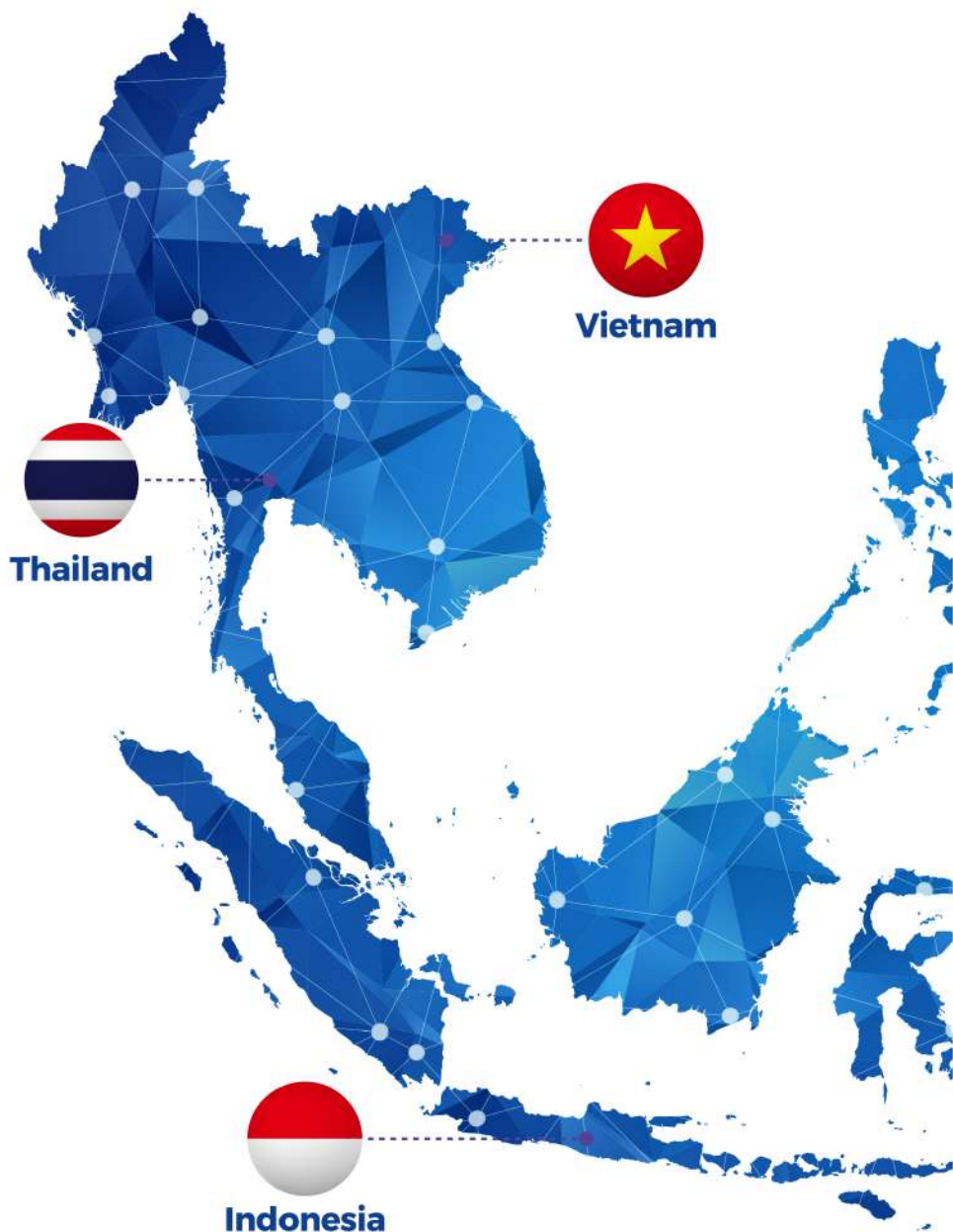


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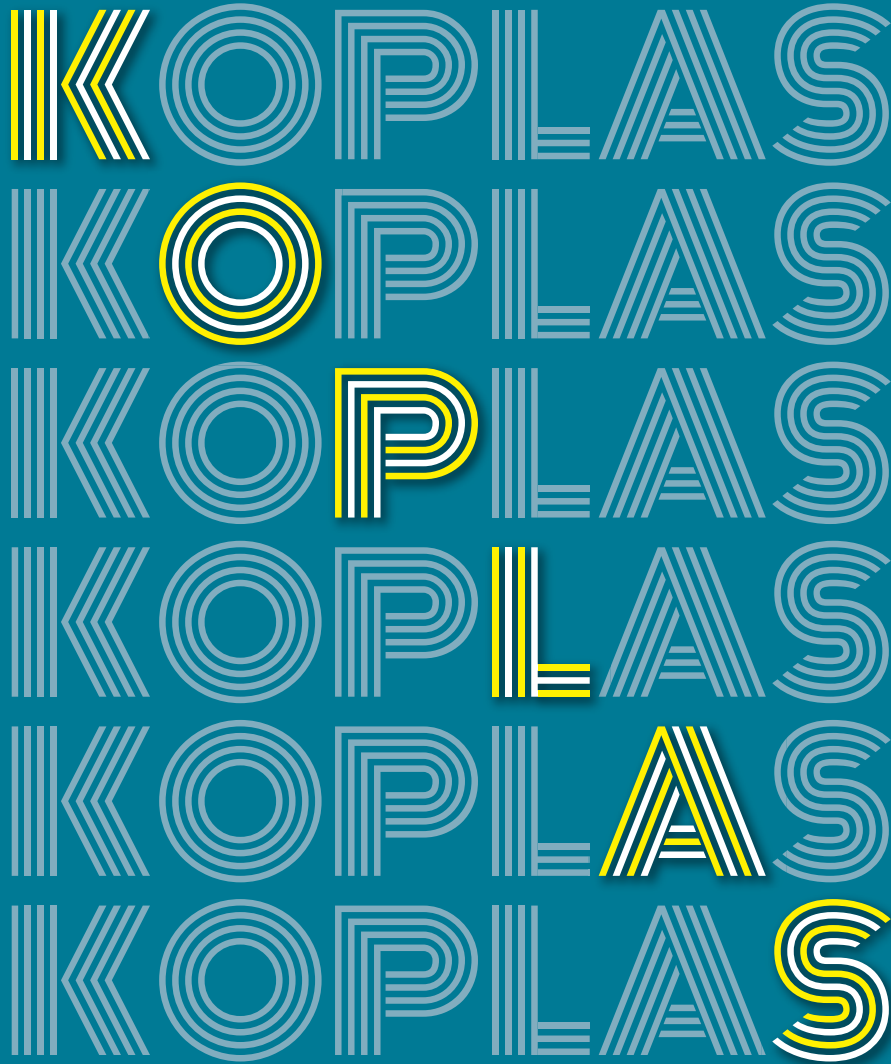


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MACHINERY & AUTOMOTIVES

Contents



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March 2023 (Vol.51, No.03)

Machinery & Automotives



Portable Air-conditioner / Page 14



Eco Steam Pump / Page 20



Ultra-compact Electric Vehicle
/ Page 22



Hyperbaric Oxygen Therapy
Equipment / Page 34

14

New & Hot

18

Cover Story

-Introducing Selected Exporters

34

Company to Watch

- Interoccean Co., Ltd.

38

Industry Trends

42

Exhibition Preview

46

Tourist Attractions

55

Advertisers' Index

Korea Buyers Guide Published!

In addition to Machinery & Automotives, we also published two other trade magazines – Korea Buyers Guide(General Items) and Electronics - in March.



Korea Buyers Guide (General Items)

New & Hot
Cover Story
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Advertisers' Index



Electronics

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GRONIQ^o

Next Generation Heating Solution

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Rapid heating



Ultra-high temperature heating



Eco-friendly



High efficiency

PRODUCT



GRONIQ (Microwave Type)

- Quick heating to ultra-high temperature in response to the electromagnetic waves in the air
- For stability, it is provided in a form that SiC fiber, the raw material, is stored in Quartz ware.

Product type Circle and bar types



GRONIQ (Electric Type)

- Quick heating to ultra-high temperature in response to the current in the air
- For stability, it is provided in a form that SiC textile, the raw material, is stored in Quartz ware.

Product type Bar type



Applied Products

- Various applied products which use GRONIQ as the heater
- Low power consumption, compared to other ordinary metal and non-metal heater. Installed in a cartridge box, it helps easy and simple maintenance.

Product type Dental furnace, dryer, hot air blower, electric stove, and other heating system

Make-to-order support Customized production service to meet customers' specific requirements



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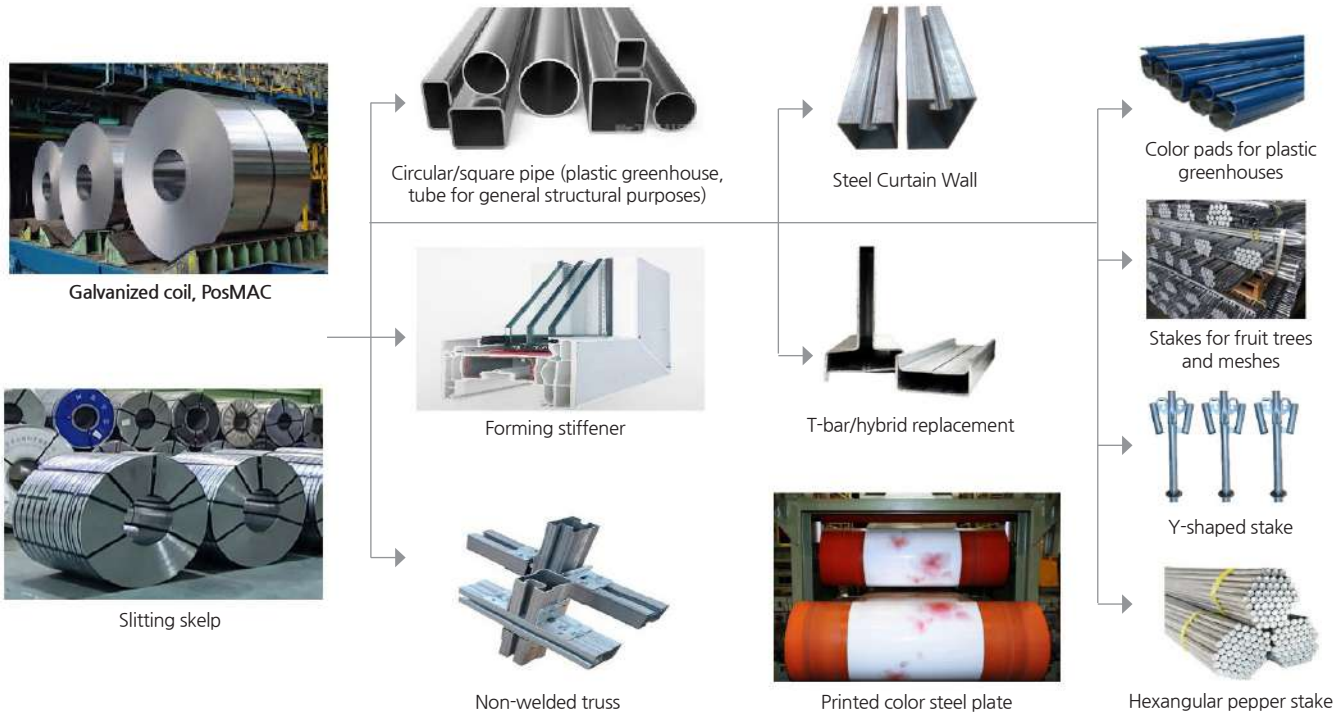


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Construction case of non-welded truss



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Refrigerating & Air-conditioning Equipment

[INQ. NO. 2303M01] Since its establishment in 1989, Weltem Co., Ltd. has made every endeavor to enhance the competitiveness of the refrigerating and air-conditioning equipment sector based on technology and know-how accumulated over the past 34 years, and to secure a domestic and international competitive edge through continuous technology development.

Portable Air-conditioner(ICEN)

Weltem's flagship product is the portable air-conditioner. Its most remarkable feature is its ease of moving and installing, and focused air-conditioning in a limited space. In the event of a need for focused air-conditioning in an open and wide environment such as industrial settings, restaurant kitchen, etc., its product is more effective than the existing whole cooling-type air-conditioner.

With the built-in digital self-diagnosing function, you can check any abnormality easily. This product is an integrated air-conditioner of which the indoor equipment and the outdoor equipment is composed in one unit. In settings where air-conditioner access is difficult, you can use the air-conditioner by extending the blowing duct. This product is manufactured with an exquisite ergonomic design.

This product is used in textile factories, food factories, metal processing factories, restaurant kitchens, laundry factories, castings plants, injection factories, boiler rooms, heat treatment factories, indoor golf centers, auto repair factories, shipbuilding heavy industries, processed food drying rooms, computer server rooms, etc.



Panel Air-conditioner(COOLZEN)



Panel air conditioner controls malfunction of production facilities, shortening of machine's life, failure of the products, etc. that are caused by the high heat of the high-performance control equipment due to the automatic and precise control of the production facilities, thereby helping to extend the machine's life and preventing damage to the machine with the dehumidifying effect.

As the display shows the high temperature alarm, low temperature alarm, alarm of the compressor error, and whether the door of the control panel is open, you can cope with any abnormality quickly.

And as it is equipped with the digital temperature controller, you can check the operation status at a glance. The condensed water evaporator is provided as an option and if installed, it controls the PTC heating element with the water level sensor applying the PTC heating element.

• Weltem Co., Ltd.

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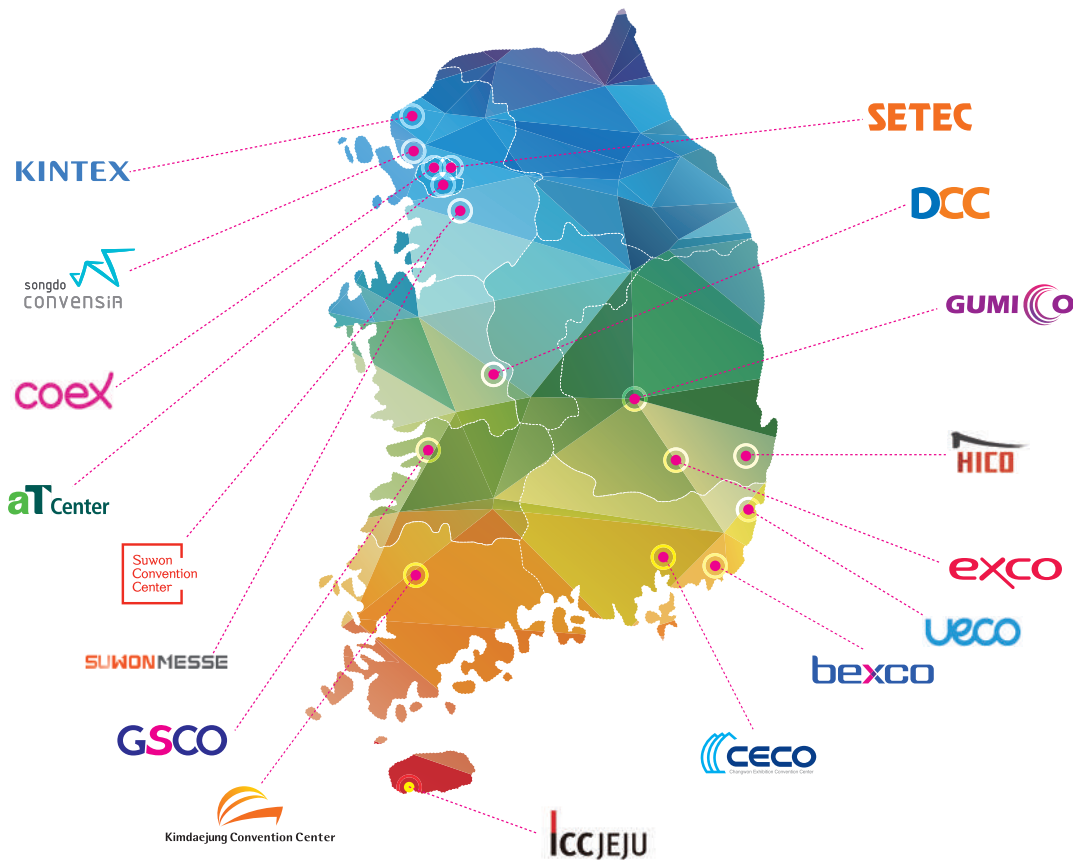
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INV. No. F285

EMI & Cooling Solution

Mobile

Represented by smart phones and tablets, the mobile-related technology has been developed so rapidly since early 2000s that it has brought all the works previously done by bulky desk-top computers onto the palm-top mobile devices. Smart phones and tablets now occupies more than 50 percent of mobile device market, and its market share is on the rapid increase. And customers' recent preferences drives the mobile products armed with high performances to become smaller and smaller. And eventually we have reached a point where the heat generation and electromagnetic interference from the mobile device arouses many critical issues. The heat degrades the products' performance, shortens the product life time, the electromagnetic interference increases device malfunction and gives many sorts of inconvenience to users. That's why the cooling and electromagnetic shielding solution has become one of the most fundamental factors in designing mobile devices. Furthermore, the mobile devices cannot tolerate a large space for cooling elements. Therefore cooling elements for mobile devices require the ultra-thin and ultra-high cooling performance and composite solution of cooling and electromagnetic shielding.

Application

- ESD+EMI Shielding : SF/TSC/SCN Series
- Thermal Spreading : TSC/SCN Series
- * 5G High Frequency Special : SFG/TCG Series

Display

Represented by TVs and monitors, the display market has long been reorganized to FPD(Flat Panel Display). Although FPD products now give many benefits to customers such as image quality enhancement and reductions in weight and thickness, there still remain many issues regarding the internal heat generation, electromagnetic interference and light leak. Recently Accompanied by the FPD's trend of becoming thinner and thinner, and increased circuit density, the implications of heat and light leak are aggravated.

Application

- Grounding+Light Shielding : SF Black Series
- ESD+EMI Shielding : SF/TSC/SCN Series

Computer

Recently, the personal computer market is increasing with laptops and tablets. They are always loaded with heavy computing tasks and operations of highquality contents. Compared to a desktop computer, it is miniaturized to the level of a mobile device, so there are complex problems such as heat, electromagnetic interference, and light leakage.

Application

- ESD+EMI Shielding : SF/TSC/SCN Series
- Thermal Spreading : TSC/SCN Series

Led Lighting

Power Supply

Others



Exports Showing an Upward Trend

Automobiles, General Machinery, and Secondary Batteries on the Rise

According to recent data released by the Ministry of Trade, Industry and Energy, exports in February were \$50.1 billion (about KRW66.3825 trillion), down 7.5% from the same month last year (US\$54.15584 billion). It is the fifth straight month since September last year that exports have decreased.

Semiconductor exports fell by 44.5% in January compared to the same month of the previous year, and in February, they also decreased by 42.5% to US\$5.96 billion. Semiconductor exports have been on a downward trend for the seventh consecutive month on a monthly basis.

Automobiles recorded the highest export performance ever thanks to the easing of automotive semiconductor supply shortages, and the launch of new high-value-added vehicles such as eco-friendly vehicles and sports utility vehicles (SUVs).

Automobile exports increased 47.1% from last year to \$5.6 billion, breaking the record four times since achieving monthly exports of \$5 billion for the first time in July of last year. Monthly exports of automobiles have risen to a level approaching that of semiconductors.

Exports of general machinery (+13.0%) shifted to an upward trend in six months, and exports of secondary batteries also increased by 25.1%, marking a record high in February.

By country, exports to China decreased by 24.2% to US\$9.881 billion, recording a decline for the ninth month in a row. Exports to the Association of Southeast Asian Nations (ASEAN), which ranks third in terms of export volume, also decreased by 16.1%. On the other hand, imports of the three major energy sources, including crude oil, gas and coal, increased by 19.7% from the same month last year to US\$55.4 billion (approximately KRW 73.4 trillion).

In 2022, Korea recorded exports of US\$683.9 billion, up from US\$644.4 billion achieved in 2021, enabling the nation to become the world's sixth-largest exporter.

Korea has posted a relatively high 12.2% increase in its exports compared to other nations that primarily export manufactured goods, such as Japan, Germany, and Italy, making Korea the world's sixth-largest exporter, a notch higher from seventh place in 2021.



Ultra-Green Condensing Boiler

[INQ. NO. 2303M02] Daelim Royal E&P Co., Ltd. has developed the ultra-green condensing boiler based on the features of a high-efficiency condensing boiler that reuses emission gas of high temperature; and Daelim Royal E&P's independent flue gas recirculation (FGR) technology, real-time nitrogen oxide measuring technique, and four-damper control system.

In the first stage, the first NOx sensor measures concentration of NOx and oxygen in the emission gas in real-time, and the first damper controls the amount of air in final combustion entered from the fan. Also, the second damper controls the amount of gas entered into the burner according to a condition of optimum air to fuel ratio.

In the second stage, the flue gas recirculation system, FGR has been applied to reduce NOx by the reentering of discharged emission gas inside the boiler through the fan.

Unlike a general FGR system, to adjust the FGR, Daelim Royal E&P's FGR system is equipped with one damper at the outlet through which the emission gas flows into the fan through the FGR pipe, and a fourth damper that controls the mixing amount of outside air and emission gas.



through the experiment out of its results, Daelim Royal E&P has developed a high-efficiency low NOx technology that can reduce NOx more efficiently and effectively than the previous two dampers control system.

Based on the NOx-reduction technology and energy-saving technology, Daelim Royal E&P is expanding vigorously to tell the world market about its independent and excellent technology.

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Website: www.dlroyal.co.kr



For the technology, Daelim Royal E&P has used a principle to drop oxygen concentration in combustion air for the purpose of reducing NOx during the process of mixing flue gas entered through recirculation with external air.

Installing a second NOx sensor at the entrance hole of combustion air, the company has developed technology to measure the oxygen concentration in mixed flue gas in real-time and drop the oxygen concentration in the combustion air up to extremely low, and emitting the lowest concentration of NOx.

From the result of analysis on the data values obtained



Eco Steam Pump

[INQ. NO. 2303M03] MIRAETECHIN Co., Ltd. is a small to medium-sized enterprise that develops technologies for waste-heat energy recovery or waste-heat blocking for industrial boilers that consume a lot of energy.

MIRAETECHIN has succeeded in developing a new product called 'Eco Steam Pump' that can fundamentally block the waste heat generation of industrial boilers through continuous investment and R&D for the past 15 years.

This product has been recognized for its performance and quality by being supplied to some large domestic companies including Korea Paper, etc. within two years of its launch.

In particular, inquiries from the industry are rushing in as this product has shown an epoch-making performance in reducing LNG gas energy consumption by 20-30%.



A spokesperson for the company explained, "We have four technology patents, and we will become a growing company that puts more effort into R&D for industrial energy R&D to reduce greenhouse-gas emissions in response to climate change."

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Website: www.mrtin.kr



This product is a technological product developed to reuse by blocking the discharge of condensate and re-evaporated steam that lower the heat energy efficiency of industrial boilers. It is an eco-friendly boiler steam pump to dramatically reduce fuel energy such as LNG gas.

Applicable to all industrial boilers

Since this product is designed to drastically reduce the fuel energy of steam boilers and industrial water, all of which consume LNG, oil, electricity, etc., it can be applied to all industrial boilers at home and abroad. In particular, it is very useful for paper and food processes that apply the steam-drying method.



Freezing & Refrigerating Showcases

[INQ. NO. 2303M04] SEKWANG C&H LTD., as a company specialized in manufacturing freezer & refrigerator showcases, has been supplying its products to local ice cream producers, food companies, and others for the past 30 years under the slogan of 'simple and beautiful exterior and high-quality delivery.'

Many of its products are easily seen at large-sized marts, department stores, supermarkets, coffee shops, and so forth. SEKWANG C&H is currently leading the industry and is winning trust in terms of design and quality through deals with large-sized companies for many years.

It possesses unsurpassed technical prowess even compared with that of large-sized companies.



SEKWANG C&H will continue striving for a better future by continuing to achieve customer satisfaction.

• **SEKWANG C&H LTD.**

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E-mail: cnh4204@naver.com

Website: www.sekwangcnh.com

Moreover, its status has grown to the extent that it could advance into overseas markets.

Freezing & refrigerating showcases manufactured by SEKWANG C&H have attractive, luxurious, and creative designs enough to easily motivate customers to purchase. Furthermore, their internal spaces are designed to efficiently keep and display more products.

In addition, they have low fraction defects and are reliable enough for customers to use as their main components (compressors, thermostats, etc.) are from renowned foreign companies.

SEKWANG C&H has established A/S centers nationwide to address customers' complaints anywhere 24 hours per day and to maintain trust with its customers. By estimating the market and finding out customers' needs, SEKWANG C&H developing and selling new products.

And, it is also planning to win the hearts of customers and to lead the future as an all-round maker related to freezer & refrigerator showcases by continuing to carry out researches and technical development.



Ultra-compact Electric Vehicle

[INQ. NO. 2303M05] CEVO Mobility Corp. was spun-off in April 2021 from CAMMSYS to strengthen its EV expertise and independence. The two-seater CEVO-C, which was first launched in 2019, achieved the top spot in the domestic ultra-small electric vehicle market in 2020 and 2021, respectively, for its design and convenience.

CEVO Mobility's CEVO-C SE is the latest model that adopts a Korean-made lithium-ion battery, displaying its improved capability in terms of safety, economics, and mileage. CEVO-C is the first ultra-compact electric vehicle developed in Korea. This model is suitable for shopping, small delivery, and commuting.

CEVO-C SE is a two-seater ultra-compact electric car that showcases its unique presence in the city with a unique profile, and two-tone application of four vivid colors and white two-tone.



Ultra-compact electric vehicle that emphasizes stylish fashion



CEVO-C SE places emphasis on sophisticated fashion in its sophisticated appearance.

LED turn signal lamp and rear combination lamp – in line with its compact size. This model is designed in consideration of practicality and convenience by offering a broad loading space in its trunk. It has convenience features such as power windows, air conditioner, and electric door locks.

CEVO-C SE has the best safety specifications in its

class by applying boosters and disk brakes based on the space frame structure. This model can also be charged at a 220V outlet, together with a slow charging method. There are four colors applied to this model: fashion red, midnight blue, aqua blue and lime-green.

CEVO Mobility is also actively developing a car-sharing business for short-distance travel, and plans to target domestic and overseas markets by adding lineups such as four-person passenger and light trucks.



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Website:www.cevo.co.kr/en

Horizontality & Tightness Window System

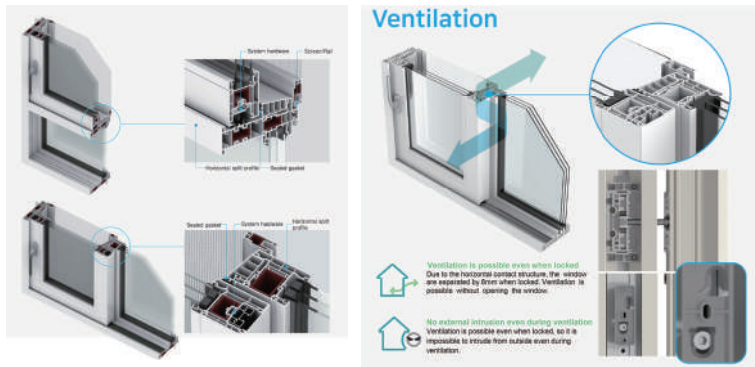
New Sliding Single Window, Hardware System with Perfect Insulation and Air Tightness

[INQ. NO. 2303M06] CS Technology Co., Ltd. was established as a company specialized in producing hardware products used for windows in 2003. It was converted into a corporation in 2013 and constructed its own factory in 2015 to manufacture high quality and premium window hardware products.

HUZENTUM, as a horizontally contacting sliding window system with air tightness of $[m^2/(h \cdot m^2)]$ 0.00 and a heat-transmission rate of $[W/(m^2 \cdot K)]$ 0.656, is a neoconceptual window that is outstanding in ventilating the environment while closed. It features high insulation, high air tightness, high water tightness, and anti-crime performance.

HUZENTUM is a sliding window equipped with new technology as it is possible to adjust the free play of up to 8mm in a horizontal direction (inward/outward) thanks to the system hardware mounted inside the window panel.

HUZENTUM totally seals the gaps between each of the window frames to ensure air-tightness, having a great effect on insulation, water tightness, and fine-dust prevention. It is able to endure outside wind pressure during a heavy windy season and block window noise by 100%. In addition, the window product is excellent in preventing crime, as it is possible to ventilate the air even while closed.



Thanks to the four-side tight function, the product shows great performance in insulation, air tightness, and crime prevention. The neoconceptual window system is the world's first to ventilate the air even when locked and is equipped with an easy-open function thanks to the ergonomic design.

Depending on the direction (or rotation angle) the window handle is placed in, the window system performs three functions: open, ventilation, and close. When the handle is placed horizontally, the window is in the open mode to unseal the tightness with the front striker

unlocked.

When the handle is placed upwardly, the window is in the ventilation mode to unseal the tightness with the front striker locked. When the handle is placed downwardly, the window is in the close mode to tightly seal the window frames with the front striker locked.

- **CS Technology Co.,Ltd.**

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Website: <http://창문손잡이.com>

Battery Automated Inspection Equipment

[INQ. NO. 2303M07] XAVIS's battery automation inspection equipment can be customized such as S/W and table size according to users and applications. XAVIS manufactures cylindrical, prismatic, and pouch-type inspection equipment depending on the type of battery.



In addition, the company can manufacture various types of optional equipment such as high-speed 2D inspection equipment, high-precision 3D inspection equipment, and 2D/3D hybrid inspection system development.

Electronic-Component Inspection Equipment



XAVIS's electronic-component inspection equipment can be customized such as S/W and table size according to users and applications. The 2D inspection function can perform high-speed and high-precision defect

inspection. The company can also develop a 2D/3D hybrid inspection system as equipment for more precise inspection. It can be applied to various electronic component inspections such as semiconductor packages, SMT, and PCB circuits.

XAVIS Co., Ltd., an abbreviation of X-ray Automatic Vision Inspection System, specializes in manufacturing and sale of industrial X-ray inspection equipment established by developers who have accumulated many years of experience in X-ray, machine vision, and factory automation (FA) equipment development.

XAVIS manufactures and sells non-destructive inspection equipment for various business fields such as secondary batteries, food, PCB, SMT, semiconductors, automobile parts, and die-casting, and always provides the best quality and best service to customers based on its accumulated technology and know-how.



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Website: <https://xavis.co.kr>

Pruning Saws

[INQ. NO. 2303M08] JERIM METAL Co. is a manufacturer and exporter of various kinds of hand saws. It has been 29 years since it started exporting its hand saws.

Based on its accumulated know-how, it currently exports to countries like the USA, Italy, the UK, Canada, and Spain.

Its main products include fold-away pruning saws, straight pruning saws, curved saws and pole tree saws. As for the fold-away pruning saws, especially, the company has the most varied kinds of models.

In addition, the company has come up with enough saw handle designs to satisfy the diverse requirements of the international market through continuous research and development.

Such a series of R&D efforts enabled the company to be designated as a model venture business in 1998. This kind of achievement has given the company a competitive edge in the international market, which demands diverse designs as well as good quality and prices.



Three Types of Hand Saws Used as Garden Tools and for Agricultural Saw



The blade of the fold-away saw can be folded into the handle and unfolded out of it with ease. It is very efficient for pruning small branches and twigs, and the compact size offers high portability since it can be easily put into a pocket.

The handle has various designs and colors, which offers convenience and safety, not to mention their beautiful appearance. It is designed to relieve hand fatigue to a maximum degree when used for a long time. The dual safety mechanism will

prevent possible hazards (JR905 and JR2905 series).

The blade of the straight pruning saw is made in a straight line with the handle.

Unlike the fold-away pruning saw, the straight pruning saw can cut thick branches without difficulty. It is easy to keep in any place thanks to its case protecting the blade.

The case enables you to store the saw or even carry it by your side easily. There are various kinds of handles for the saw and each handle is equipped with a case for its own sake.

The curved saw is perfect for pruning live branches. Unlike the straight pruning saw, its blade is not straight, but a little curved and can be conveniently used to cut a tree without applying a lot of force.

There are three types of curved saws - foldaway type, straight type, and telescopic pole saw. Like the straight pruning saw, however, they are available in a wide variety of kinds.



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Bearings for LNG Pumps

[INQ. NO. 2303M09] HANIL HIGHTECH, which has grown into a leader in the special bearings used in high-tech industries such as semiconductors and displays since its founding in 1999, is expanding its business territory into energy, aerospace, medical, and the defense industry, in line with the development of Korea's advanced industries.

Bearings for LNG pumps are, being affected by the axial thrust forces, used in severe environments in extremely low-temperature environments of -163°C ~ -196°C . HANIL HIGHTECH's bearings for LNG pumps can exert the best performance in high-speed and high-load conditions in deep frozen environments.

High-speed, high-precision bearings



HANIL HIGHTECH's bearings for LNG pumps are categorized as high-speed turning bearings, and high-precision bearings. Bearings for LNG pumps are excellent in corrosion resistance and wear-resistance. They also perform well at low temperature.

HANIL HIGHTECH's bearings for LNG pumps are actively applied to turbo pumps of aerospace projectiles, transfer pumps of cryogenic liquefied gas, and defense

industry weapon projectiles.

HANIL HIGHTECH has its own ultra-low-temperature bearing test equipment.

By evaluating bearing performance and lifetime in the cryogenic environment (LN2) using cryogenic test equipment, the reliability of the ball bearings manufactured using the ultra-low temperature ball bearing equipment has been proven.

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Website: www.hanilhightech.co.kr/theme/theme03/en/



PE Ball Valves

[INQ. NO. 2303M10] Polytec Co., Ltd., founded in 1998, has played a key role in the global PE valves and fittings industry. Polytec is a leading PE ball valve manufacturer in the low pressure PE gas & water pipeline business.

Polytec's PE ball valves [ASTM size: 1/2" CTS through 16" IPS/ ISO size: 20mm through 400mm] are suitable for various applications such as natural gas distribution systems, coal bed methane, industrial plants, and water distribution systems.

The plastic bodies of the valves are free from the corrosion that is caused by chemical or electrical contact both internally and externally. The full-bore design and smooth PE wall allow maximum flow-capacity for gas & water transportation.

Integral purge connection is available for compact and cost-effective purging system installation. The massive designed body is resistant to all piping loads including mechanical and thermal load.



The specially compounded seats show excellent elasticity and toughness over the valves' entire life.

The key advantages of Polytec valves are easy installation, wide range of product size (20-400 mm, 1/2-16 inch), longer lifetime than steel valves, and environment-friendly material (polyethylene is safe for the human body). Since its first export of PE gas ball valves in 1996, Polytec has won the loyalty and support of customers in more than 25 countries across the world. Polytec has been building up its global service network through long-term partnerships with local industry leaders.

Under the company motto, 'Safety Is Our Business,' Polytec

supplies PE ball valves to many pipeline fields around the world and enjoys its reputation as a quality valve maker.

Amid rapidly growing concerns on environment protection and sustainable development, Polytec pursues five goals in line with the United Nations' Sustainable Development Goals (SDGs) — 'good health & well-being; clean water & sanitation; affordable & clean energy; sustainable cities & communities; and climate action.

Based on this approach, the company wishes to assist its customers and their local communities to achieve sustainable growth.

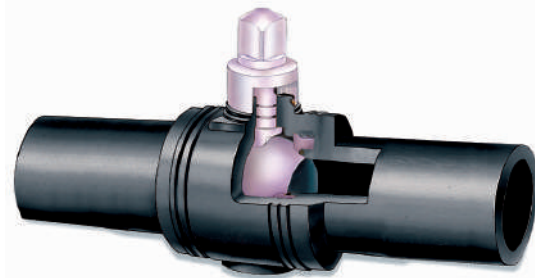
• **Polytec Co., Ltd.**

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Hydraulic Cylinders & Valves

[INQ. NO. 2303M11] The hydraulic cylinder of Hipower Hydraulic Co., Ltd. can be applied to a wide range of uses such as machine tools, general industrial machines, agricultural machines, etc.

With SRB 303000 inner tube polishing, Hipower Hydraulic Co., Ltd. manufactures cylinders with enhanced airtightness and roughness. By acquiring a patent for the hybrid main drive cylinder, its durability can be completely verified. As an ISO 9001-certified company, Hipower Hydraulic provides cylinders meeting official standards.

In addition, as a made-to-order type, the company can manufacture the products in accordance with customers' requests starting from the cylinder design. Therefore, the company can provide hydraulic cylinders suitable for the field environment, featuring high safety and work efficiency.

Hipower Hydraulic is committed to providing optimal hydraulic cylinders based on its hydraulic know-how accumulated over 28 years.



Hydraulic Control Valves and Level Meters

This product enables the set flow rate to be adjusted regardless of the change of pressure and temperature. It is used for controlling both the flow rate of the hydraulic circuit and the precise speed of the actuator.



The product with embedded check valve is capable of control flow and free reverse flow. It can safely control the flow rate. Hipower Hydraulic was granted a patent for the poppet valve and currently has many domestic and foreign customers.

Also, the company produces hydraulic valves, oil-level meter that shows the amount of oil, solenoid valves, switches, and other hydraulic components by OEM & ODM. It can supply products that meet customer's requirements such as pressure setting and valve material, and fully customized hydraulic services are available.

Hipower Hydraulic plans to become a business partner growing together with customers through continuous development, both of new products, and as a company with customer value as the top priority.

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ENERGY-INDEPENDENT SMART STREETLIGHT CONTROL SYSTEM USING WASTE BATTERIES

NO Communication expenses

NO Powerlines

NO Electricity bills



Three no's (no communication expenses, no electricity bill, and no power lines)

(No electricity bill and no power lines) The hybrid smart streetlight control system that Indonesia is interested in provides energy-independent solutions and thus needs no electricity and power lines. This system is particularly suitable for the geographical features of island nations with low energy independence.



(No communication expenses) This smart streetlight control system operates with a private communication network and thus can deal with a lack of communication infrastructure and reduce communication expenses. The system recycles waste batteries of electric vehicles by using electrochemical impedance analysis for quality inspection and lifetime prediction algorithms, thereby contributing to solving environmental problems. It can also improve road safety by controlling color temperature based on a 3-year analysis of climate information and factors that affect visibility.



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www.cnwiders.co.kr

INQ.No. F288



G&I TECH

Clean and eco-friendly Lighting solution With high safety and better design

As a company that provides LED traffic systems using solar energy, which is an eco-friendly energy source, following a corporate ideology dedicated to customer satisfaction and based on quality-first principles, we will lead the safety culture through continuous technology development and quality improvement.

Business Concepts



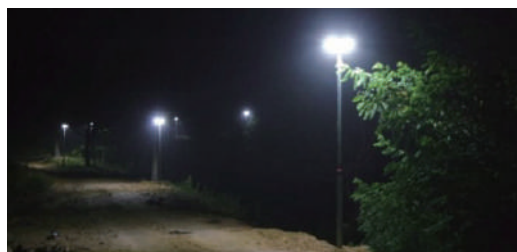
Traffic Safety Products

Solar Road Stud
Solar Road Delineator



Landscape Lighting

Solar Brick
Deck Type Solar LED
Solar LED Fence-type light



LED Street Lighting

LED Street Lights



GIWICS Wireless traffic control system

G&I TECH CO., LTD.

No.1204~6, Sungjee Starwith 38, 427 Heugnan-daero, Dongan-gu, Anyang-si, Gyeonggi-do, 14059, Republic of Korea
Tel : 82-31-345-0321 / 82-31-345-0300 ~ 0304 Fax : 82-31-345-0305 www.gnitec.com E-mail : gnitec@gmail.com

INQ No. F293

Main Technology

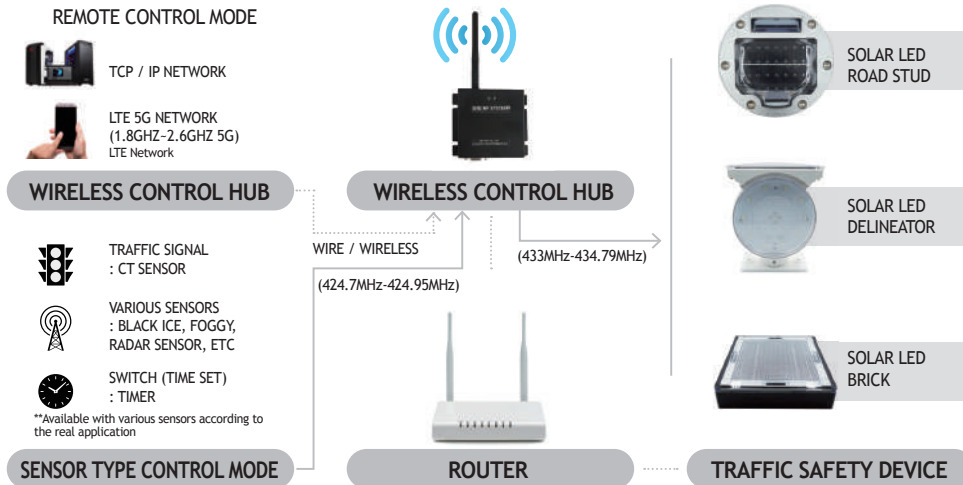
Solar LED Wireless Control traffic safety system "GIWICS"

The GIWICS system, which is fusion technology merging IOT and solar LEDs, uses a remote wireless network.



CONTROL CENTER

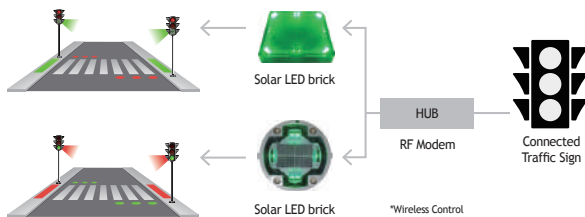
INTERCONNECTED WITH CONTROL CENTER
**Direct controllable HUB



Applications

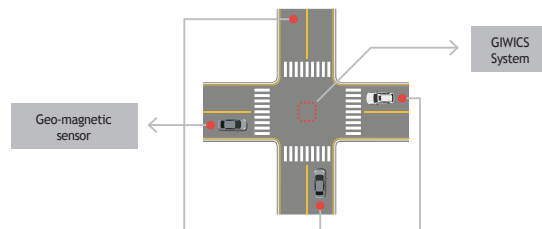
Traffic signal synchronized system

The color of installed solar LED products is automatically adjusted according to the program as the traffic signal changes.



Crossroad anti-collision system

Detecting a vehicle approaching and emits road studs installed in the middle of the intersection or stop line, so that a driver in a blind spot can recognize the other vehicle entering the intersection and prevent a collision accident



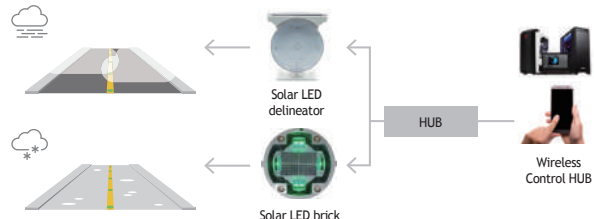
Motion sensor system

lighting up the high visibility solar LED road studs to drivers when detecting pedestrians at a crosswalk without a traffic signal



Remote Radio Control System

According to the weather (freezing, fog, etc.) and road conditions changing due to traffic accidents, the control center will use mobile phones, etc. Light or flash control of the solar LED guidance lamp allows the driver to recognize dangerous situations and prevent accidents.

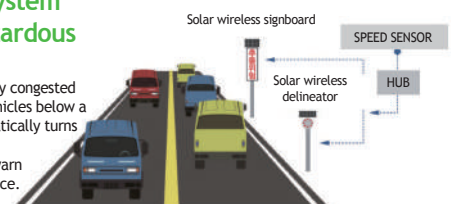


Benefits

- Eco-friendly - No wires, no electrical work required for installing the lighting devices.
- Easy maintenance - Simple change of inner module if any device has problem
- Convenient management - Managing various functions such as ON/OFF, Blink/Steady, Brightness, Delay time, Color change, etc. with a controller

Auto advance alarm system for congested and hazardous areas

The speed sensor installed in habitually congested and hazardous zones detects when vehicles below a certain speed are moving, and automatically turns on and flashes the solar LED traffic facilities installed on the highway to warn drivers of the road conditions in advance.



Hyperbaric Oxygen Therapy Equipment

[INQ. NO. 2303M12] The entry-level hyperbaric oxygen therapy equipment introduced by Interocean Co., Ltd. is a high-performance oxygen therapy product that utilizes both the air pressure method and pure oxygen inhalation as a product that uses a breathing mask and a treatment pressure of 2ATA or higher. In other words, it is an innovative product that eliminates the risk factors of oxygen pressurization and maximizes the high-pressure treatment effect.



A spokesperson from the company explained, "If the pressure is increased with oxygen, there is a risk of fire, and hyperbaric oxygen therapy equipment should be used as an air pressurization method since the respiratory gas is not 100% oxygen in order to prevent the effectiveness of the treatment from decreasing. We are very pleased to introduce an air pressurized entry-level chamber through utilizing our accumulated technology."

The high-pressure oxygen therapy device shows a large difference in treatment effect depending on the pressure applied inside the device. The medical hyperbaric oxygen therapy device mainly used in hospitals exerts the treatment pressure of 3 to 6 ATA by the air pressurization method, and uses the method of inhaling pure oxygen through a breathing mask.

However, the majority of household oxygen chambers have a remarkably low breathing oxygen concentration by adding pressure of 1.3 to 1.5 ATA with oxygen and inhaling

the oxygen supplied inside the chamber without a mask.

Since Interocean developed and supplied multi-person hyperbaric oxygen therapy equipment for the first time in Korea in 2013, it has achieved various sales records in large general hospitals, the Navy, and the Coast Guard. In 2022, it also ranked first in the market share of multi-person hyperbaric oxygen therapy equipment.

Multi-person hyperbaric oxygen therapy equipment

Interocean developed multi-person hyperbaric oxygen therapy equipment for the first time in Korea, and is the leading company in the domestic hyperbaric oxygen therapy equipment market. It directly performs production, installation, and AS with its own technology. Moreover, it is the only local company to operate a research center for hyperbaric oxygen chambers, in a large-sized manufacturing factory.



Interocean plans to release low-cost hyperbaric oxygen therapy equipment in the future, and supply customized hyperbaric oxygen therapy equipment tailored to the needs of each hospital.

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Website: www.interocean.co.kr



Expanded Beam Connector

Expanded Beam Connectors utilize lenses to extend the optical signal into the form of a beam to deliver the signal. It has been selected as the world class product in Korea.

83526(Series)
MINI, JUNIOR, SENIOR, MAXI



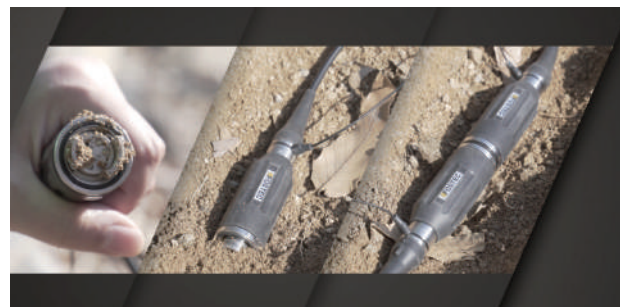
FOSTEC
TYPE 38999
11shell
13shell
15shell
17shell



FOSTEC
Hybrid (Optical & Electric) connector



- Strong in mechanical shock or vibration (even dust and contaminants), it is applicable to outdoor environments such as military and plant use.
- It is easy to maintain on-site and can be easily handled by non-experts.



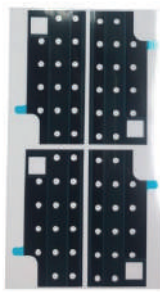
Fostec Inc.

Fostec Bldg., 40, Emtibeui 20-ro, 12beon-gil, Danwon-gu, Ansan-si, Gyeonggi-do, Republic of Korea
Tel : (82-31)-318-9350 Fax : (82-70)-4216-2251
E-mail : sales9350@fostec.co.kr Website : www.fostec.co.kr

INO No. F259

JINYOUNG INNOTECH

Jinyoung Innotech is a modest giant in materials and parts with a leading technology in die-cut companies that create products with flawless performance to meet customer requirements by implementing its own design technology for electrical, electronic, and information communication related products.



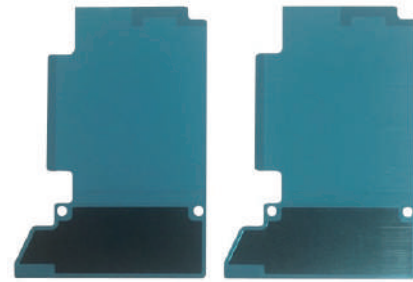
Cushion Tape



Screen Back Tape



Protective Film



Graphite Tape

Area of product application

Light blocking tape



- BLU related product module Light escaping prevention and blocking purpose.
- Display and mobile phone LCD optical source, back light scattering prevention
- Black & White plane design for improved brightness and minimal light refraction

Inflammable tape



- Highly non flammable and eco-friendly product that can prevent danger of fire caused by the hot electronic products
- Battery's internal material and finishing, battery's internal insulation and finishing

Battery tape



- Internal finishing and insulation inside the cell
- Tape to meet the heat resistivity and insulation requirements for mechanics and battery fixing and so on

Surface protection tape

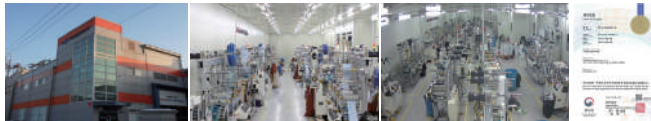


- Surface scratch prevention such as acryl, metal and so on
- Surface protection for conveyance External pollution prevention as there is no leftover after using the product

Heat conduction and sheet



- For heat discharging and impact alleviation for IC, TCP circuits
- Prevention of damages due to heating of CPU, TR, semiconductors, and precision devices and so on.



JINYOUNG INNOTECH Co., Ltd. INO No. N615

42, Beonyoung-ro 10beon-gil, Danwon-gu, Ansan-si, Gyeonggi-do, Republic of Korea
Tel. 82-31-498-4252 Fax.82-31-498-4255
www.jyinnotech.co.kr E-mail: yhbae@jyinnotech.co.kr

JINY INNOTECH PVT. LTD.

OFFICE : ADVANT IT PARK PVT. LTD. TOWER-II PLOT NO.7, SECTOR 142, NOIDA EXPRESSWAY, NOIDA , Gautam Buddha Nagar UP INDIA 201305
Tel: +91 9667 562053

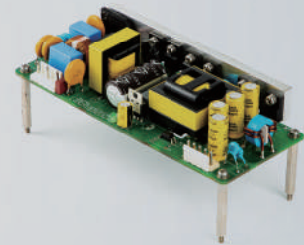
CIN N : U31909UP2021PTC154957 GST N : 09AAFJ3934J1ZA PAN N : AAFJ3934J
PLANT : 2floor 75, Block B, Sector 80, Noida, Uttar Pradesh, INDIA 201305

We Intend to Change Continuously for Customer's Trust Employee's Trust Social & Shareholder's Trust

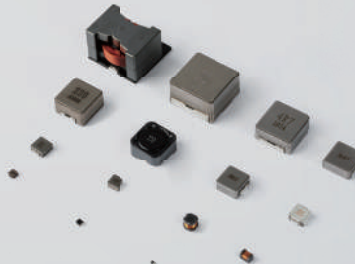
TODA ISU Co., Ltd. started as ISU Ceramics Co., Ltd., a subsidiary of ISU Group in 1987. Since then, TODA ISU has grown to become a leading parts company in the global display market for over two decades. In 2008, we joined with TODA Group in Japan and started as TODA ISU Corporation.



EMC Filter

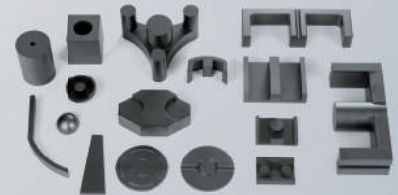


Switched mode Power Supply



SMD Inductor

DIP(Dual Inline Package) Type Inductor
High permeability inductor



Ferrite

high-frequency / high-efficiency ferrite
Garnet ferrite with high dielectricity

Double-digit Increase in Domestic Automobile Production

South Korea's automobile industry in January this year showed a double-digit increase in production, domestic demand, and exports compared to the same month of last year, thanks to the easing of the problem in the supply and demand of automotive semiconductors, and the continued good performance of eco-friendly vehicles despite the global economic slowdown.

According to 'Automotive Industry Trends' recently released by the Ministry of Trade, Industry and Energy (MOTIE), the automobile production in January was 306,738 units, up 13.2% from the same month of last year.

Despite the number of lost working days due to the Lunar New Year holidays, production increased thanks to new car production and increased sales volume of major models.

Domestic sales recorded 116,565 units, up 4.7% from the same month of last year, due to increased production thanks to improved supply and demand for automotive semiconductors.

Exports totaled 200,825 units, up 11.3% from the same month of last year. Despite the global economic downturn, an increase in export demand for eco-friendly vehicles led to strong export performance.

Exports sales amounted to US\$4.98 billion, the highest level for every month of January. This is attributable to a significant increase in exports of eco-friendly cars, which have a high export unit price.

Auto parts exports recorded US\$1.79 billion, down 16.2% from the same month of last year, due to a decrease in exports to key markets such as China, the United States, and the European Union.

Domestic sales of eco-friendly vehicles in January increased by 28.9% year-on-year to 22,662 units,

accounting for 19.4% of total vehicle sales.

Specifically, the sales volume of large sedan and SUV models increased significantly for hybrids, while the number of electric vehicles decreased due to the exhaustion of subsidies last year and the confirmation of subsidies for electric vehicles this year.



Eco-friendly car exports increased 29.8% year-on-year to 56,697 units, and exports increased 42.3% to US\$1.79 billion. Following December of last year, both monthly export volume and export amount recorded a new all-time high.

Eco-friendly car exports accounted for 28.2% of total car exports. Hybrids, electric vehicles, plug-in hybrids, and hydrogen vehicles all contributed to the record high export volume, with increased exports compared to the same month of last year.

STERLING TECHNOLOGY

FLEXIBLE COMPANY

Sterling Technology Inc. is a flexible company putting all its efforts to design and develop the innovative hydraulic attachment and vibratory pile drivers to meet customers' requirements including also customers' applications

RELIABLE PRODUCTS

Sterling hyd. attachments are high quality equipment for construction, mining work, quarry work, and civil engineering earth work industries.

STERLING SIDE GRIP PILE DRIVERS

FEATURES FOR STERLING SIDE GRIP

- Available for a wide ranges of piles
- Versatile piling at headroom job site
- Versatile piling at a confined space job site
- Precise and accurate side clamping
- Quicker and more powerful
- Low maintenance cost & easy maintenance
- Rigid and durability



Interchangeable clamp option

Thanks to its interchangeable side clamp system, the Sterling Side Grip pile driver can handle all types of piles with its multiple clamps, and it offers quick transfer capability between various applications. Round pile clamp(S) and round pile clamp(L) are an option.

Standard clamp

Round pile clamp(S)

Round pile clamp(L)



For sheet piles and H beams

For round shape piles sized from 150mm to 350mm

For round shape piles sized from 300mm to 500mm



STERLING RIPPER

UNIQUE CARTILAGE-LINK STRUCTURE AND DOUBLE BEARING STRUCTURE OF STERLING RIPPER

- Maximizing productivity and minimizing down time by on-site parts replacement
- Minimizing vibration transmitted to excavator and operator even at hard-rock
- Keeping constant and high productivity at hard-rock job site
- Rigid and higher durability at hard-rock job site- Low maintenance cost & easy maintenance
- Rigid and durability



Tip(Tooth) Type

Compactor Type

Chisel Type

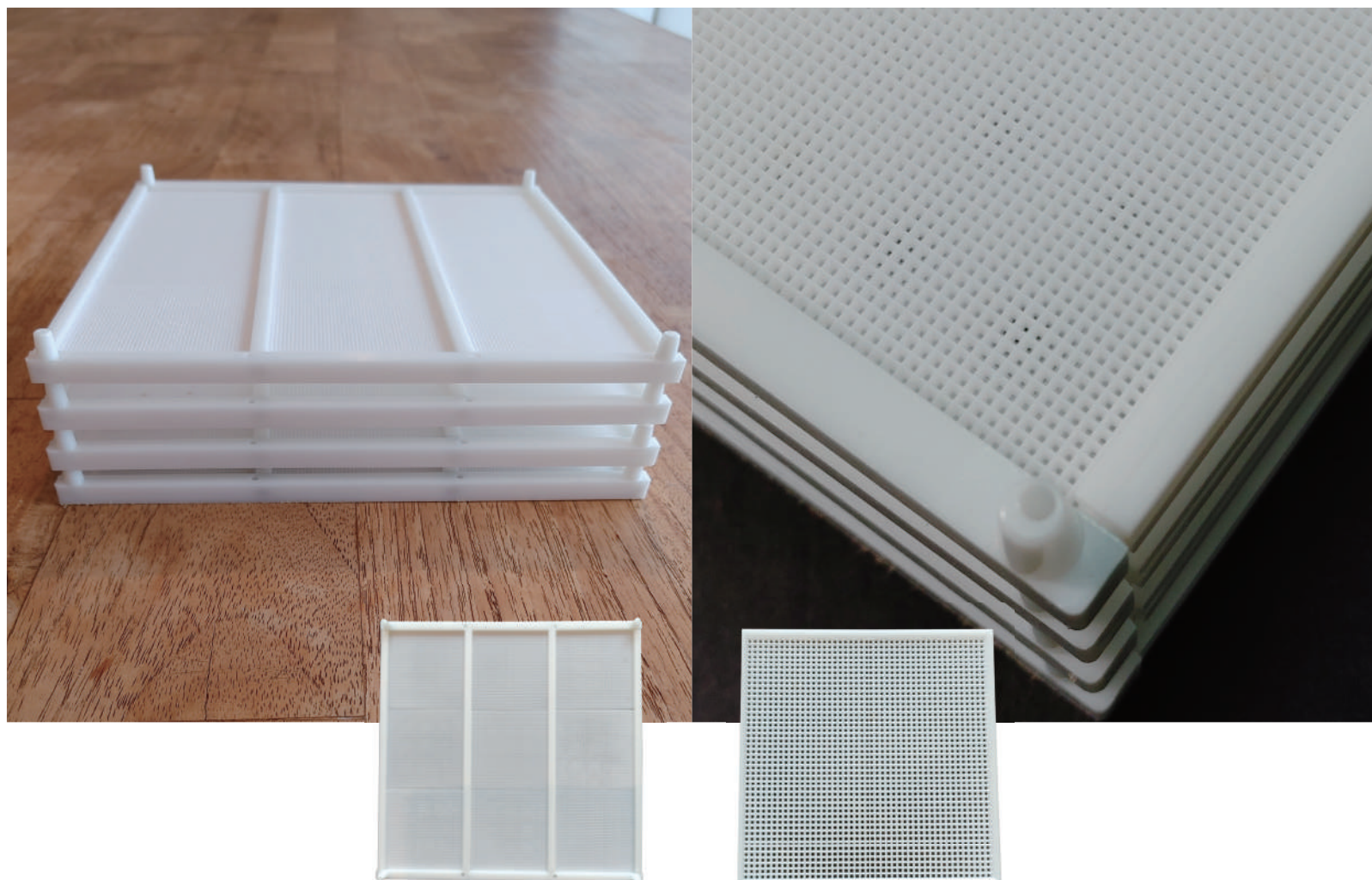


sterling  technology **Steling Technology Inc.**

INQ No. N606

26-58, Juseok-ro, 80beon-gil, Namyang-eup, Hwaseong-si, Gyeonggi-do, Korea
 Tel. (82-31)8055-8874 Fax. (82-505)055-8874
 www.sterlingripper.com E-mail: sterling@sterlingripper.com

Ceramic Mesh



Nano Pore Ceramic Co., Ltd. was established in Icheon-si, Gyeonggi-do near Seoul as a branch of the KICET (Korea Institute of Ceramic Engineering and Technology) in February 2021.

The business goal of Nano Pore Ceramic is to replace the current metal mesh type in which MLCC manufacturers place nickel mesh on the ceramic jig and sinter it after placing the Multi-Layer Ceramic Capacitor (MLCC) chips on the top of the jig.

World's First Ceramic Mesh

The ceramic mesh (150 x 154 x 1mm) that has been recently developed for the first time in the world is 1mm in thickness and 0.8mm and 0.2mm of the upper and lower pore sizes respectively, making it possible to handle 0603 and 0402 MLCCs.

In particular, the nano-pore ceramic can be stably mass-produced by using the ceramic injection method, satisfying customers' needs. Major MLCC makers are located in Korea, Japan, and Taiwan.

Furthermore, the small-sized product (47x47x1mm) of which the outer edges are raised to prevent materials from flowing out can be used to replace sagger and crucible ones.



Nano Pore Ceramic Co., Ltd.

C4-312, KICET, 3321, Gyeongchung-daero, Sindun-myeon, Icheon-si, Gyeonggi-do, Republic of Korea

CP: (82-10) 4219-3135 (Overseas contact) E-mail: joychem62@gmail.com

CP: (82-10) 4918-0444 (Local contact) E-mail: hsma66@naver.com

INQ No. N621

A no 1 expert High-performance automotive glass water repellent coating agent



A&M is a brand that specializes in manufacturing functional coatings. A no 1 expert, which we will introduce, is a water repellent coating for automobile glass that has been researched and developed with domestic technology. Anyone who drives a car must have experienced difficulties in securing visibility in the rain or having their vision obstructed by pollutants. For safe driving through clear visibility, water-repellent coating on automobile glass is now a necessity, not an option.

A no 1 expert is a high-performance water-repellent coating for automobile glass. It is a work process that is finished by wiping and applying, and it is You can feel the quality of the water-repellent coating.

A no 1 expert has excellent water repellency, so it is possible to secure a clear view in the rain, and has strong durability and durability. Up to 6 months when exposed to direct sunlight and external environment frequently after water-repellent coating It lasts up to 1 year if stored indoors and there is no damage.

In addition, the fluorine-based silane coating prevents promising formation, making it easy to clean through antifouling against contaminated water Available.

A no 1 expert can be trusted and used as it is not subject to safety confirmation target household chemical product certification and child protective packaging regulation.



ANM Co., Ltd.

C-216, 501, Jinju-daero, Jinju-si, Gyeongsangnam-do, Republic of Korea

Tel: (82-55) 758-5837 E-mail: ywjcyd@daum.net Website: <https://smartstore.naver.com/anminc2022>

INC No. N620

Seoul Mobility Show 2023 Opens Special Pavilion for Air Mobility

The Seoul Mobility Show 2023 will showcase 'mobility with wings' in partnership with the Institute for Aerospace Industry-Academia Collaboration. The Seoul Mobility Show Organizing Committee recently announced that it will operate a special pavilion for air mobility at the Seoul Mobility Show, which opens on March 31.

The special pavilion for air mobility is promoted in collaboration with the organizing committee and the Institute for Aerospace Industry-Academia Collaboration. In the exhibition, a total of five organizations and companies including h3r, MBC, VSPACE are scheduled to display advanced products such as batteries, high-precision GPS terminals, urban air mobility (UAM), etc.

The Institute for Aerospace Industry-Academia Collaboration plans to introduce its own UAM demonstration platform construction project and promote the 2023 K-UAM Confex exhibition to be held in Incheon in November this year.

VSPACE, a company specializing in manufacturing urban air transportation, will exhibit V-SPEETTER, a vertical take-off and landing PAV based on an innovative electronic propulsion system, at this exhibition. It will also unveil 'V-Power Lifepo4 battery,' a functionally mixed product comprising a battery-voltage stabilizer, AGM lead-acid battery, and black box auxiliary battery.



h3r, a future mobility production start-up, plans to exhibit secondary batteries and personal mobile devices (PM) that can be used for future mobility, AAM parts such as electric propulsion systems and energy storage systems, and high-power and high-efficiency batteries in the e-mobility field. In particular, h3r's AAM electric propulsion system is characterized by high power density and high stability.

MBC, based on its know-how in broadcasting technology and IT services, will introduce the GPS receiver 'SMC-2000' with ultra-precision positioning technology 'RTK (Real Time Kinematic)' that narrows the error-level of GPS to the centimeter unit. The receiver, which has been applied to more than 150 drones, is evaluated as a highly competitive product compared to overseas products in terms of ease of use, performance, and price.

In addition, FIBERPRO, which specializes in optical measurement and optical sensor solutions, plans to exhibit its Fiber Optic Gyroscope (FOG), and Inertial Measurement Unit (IMU), which are essential parts for autonomous driving systems and UAM. Among them, an inertial measurement unit is a device for measuring the speed, direction, gravity, and acceleration of a moving object, and is widely used in the fields of flying objects, ships, robots, and ICT, including aircraft.

A spokesperson for the Seoul Mobility Show Organizing Committee remarked, "We prepared this joint pavilion to show future mobility that is evolving and developing in various forms such as electric vehicles, self-driving vehicles, and personal mobility vehicles, as well as UAM and PAV. It is very meaningful in that it showcases a wide range of mobility beyond the spatial limitations of land, sea and air through unveiling air mobility products and related technologies."





TNGroup is seeking ways to lead the market through analysis of market transformation with innovative idea



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HEAD OFFICE (KOREA)

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[NO. N619]

Why TNCORE?

Korea No.1 Manufacturer who is specialized in developing aftermarket chips.
 Would you like to risk your business for few dollars?
 Small difference could bring total different result.
 We value relation with each customers, and offer reliable quality, follow up services after sales.
 Trust the team that knows your industry.



Growing tech company

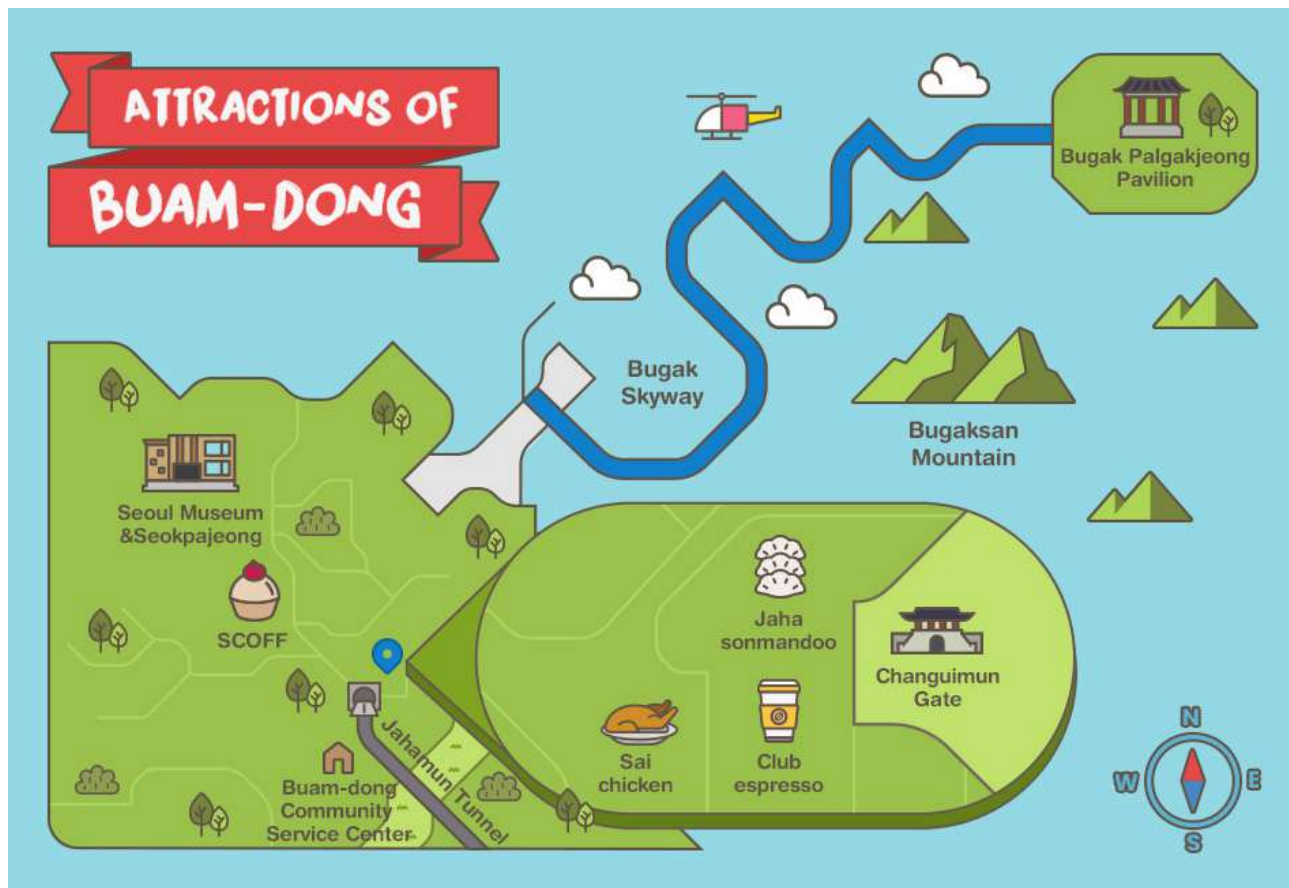
Tintec provides infinite inkjet system.
 We are growing with customers regardless of the unlimited competition in the market.
 We provide Inkjet chip & Reset jig for the infinite printer and we are constantly striving to be the best in Managed Print Service(MPS) system industry as well.

PRODUCT

-  **Chipless Solution**
Tintec provides customers "Chipless Solution" for ink jet printer which has been developed by its own.
-  **Premium Ink**
The Premium Ink used for CISS allows long time operation without any printhead issue.
-  **Premium CISS**
The in-house developed CISS is designed for end users to experience all-in-one infinite printing solution.
-  **MPS Service (TN Box)**
MPS is customized for printer rental service which enables to remotely monitor rea-time printer status, customer service, and inventory at the saem time.
Try this new paradigm for printer rental business.

Much Ado about Buam-dong

Buam-dong is famous for its charming mix of modern culture and traditional buildings. There are many famous restaurants and unique shops hidden along the twisting roads.



Seoul Museum & Seokpajeong

Seokpajeong was once the royal villa of Heungseon Daewongun, father of Emperor Gojong. It is now located within the grounds of Seoul Museum. The museum does well to preserve traditional beauty while also showcasing the charms of modern art. Many exhibitions are held in the space in front of Seokpajeong. There are two main planned exhibitions held each year, and Seoul Museum tickets include admission to Seokpajeong.

You can reach Seokpajeong, surrounded by a cluster of pine trees, by coming out of the third floor of the museum. Located at the foothills of Inwangsan Mountain, the villa offers views of Bugaksan Mountain, as well as a lush Japanese red pine forest.



SCOFF

SCOFF sells crumbly scones and rich brownies, perfect for curing a sweet tooth. Despite being a rather small shop, this bakery has been featured on major food-themed programs in Korea, such as “Wednesday Food Talk,” making it extremely popular.

Each perfectly baked scone breaks into buttery soft pieces with each bite. You can make it even better with a dab of raspberry jam and clotted cream. If you’re looking for something a bit stronger, try the brownie, a decadent treat with a rich, bold flavor. The pound cake with a thin layer of lemon icing is another popular choice.

Club Espresso

Club Espresso has been a key attraction in the Buam-dong neighborhood since opening in the 1990’s. The beautiful wooden interior resembles a cozy cabin in the mountains.

In order to preserve the unique flavor and scent of each type of coffee, individual machines are used for each blend. The café also sells whole coffee beans, ground coffee, and coffee supplies.



Sai Chicken

Sai Chicken is a fried chicken restaurant named for its location in a small alleyway between (‘sai’ in Korean) buildings. Easy enough to miss when you’re not looking for it, Sai Chicken has still become quite famous through word-of-mouth. Here, you can enjoy the unique taste of fried chicken with bean sprouts.

The chicken is good on its own, but becomes something extraordinary when paired with the crunchy bean sprouts. The servings of chicken are generous, and bean sprouts are unlimited, so you’re sure to get your fill!

Jaha Sonmandoo

Jaha Sonmandoo was recognized in the 2018 Michelin Guide for serving excellent mandu (dumplings). They do not use many seasonings, which gives the mandu a rather plain taste, but dip it in the in-house traditional Korean soy sauce and your taste buds will be awakened to a whole new world!

Each bowl of mandu guk (dumpling soup) is a pure expression of the chef’s efforts. The chewy mandu shell and mildly seasoned flavors are tempting. The restaurant features large windows so diners can enjoy their meal while gazing at the beauty of Bugaksan Mountain.

Bugak Palgakjeong Pavilion

If you follow the road up Bugaksan Mountain from Buam-dong, you will reach Bugak Palgakjeong Pavilion, perfect for taking in the view of Seoul.

The pavilion offers a restaurant, café, and convenience store. The drive up is called Bugak Skyway, and has been a popular driving course for couples, and a riding course for bicycle clubs. Ending your day here is a great idea, as the nightscape is not to be missed.



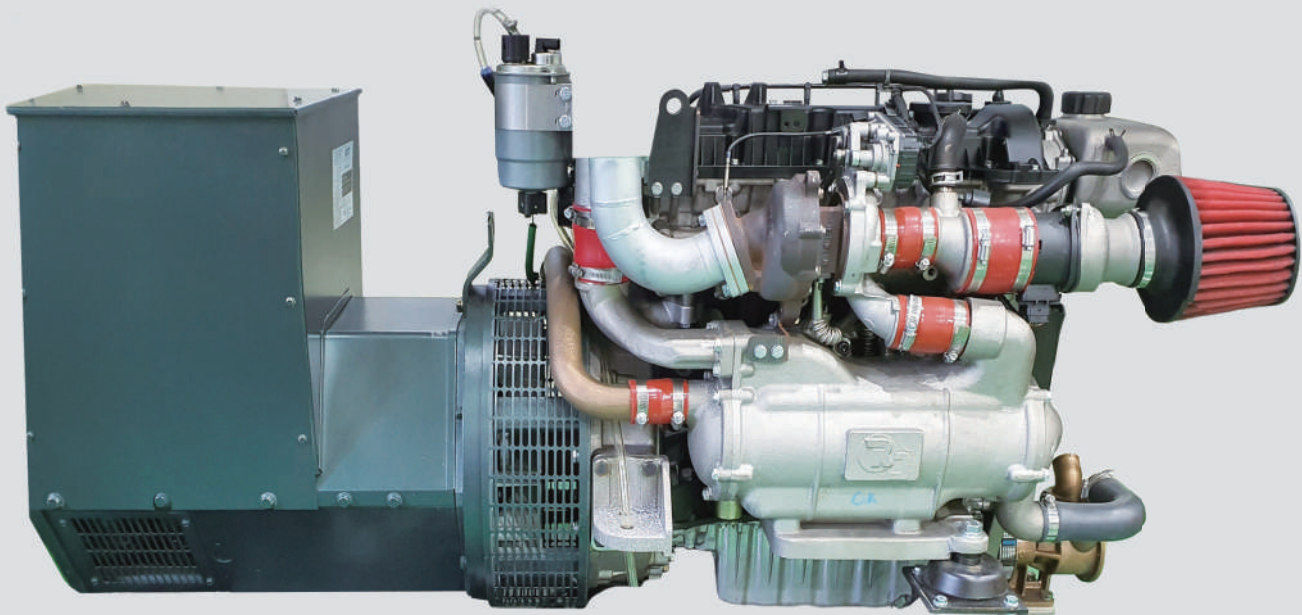
Visit Korea Website

The above article is courtesy of VisitKorea, the official website of the Korea Tourism Organization (www.visitkorea.or.kr)

Generator Engine



- HIM Marine Generator engine with state-of-the-art new technology
- Electronically Controlled Diesel Engine
- Compact and lightweight design with the highest output in similar output range
- Minimization of operating costs

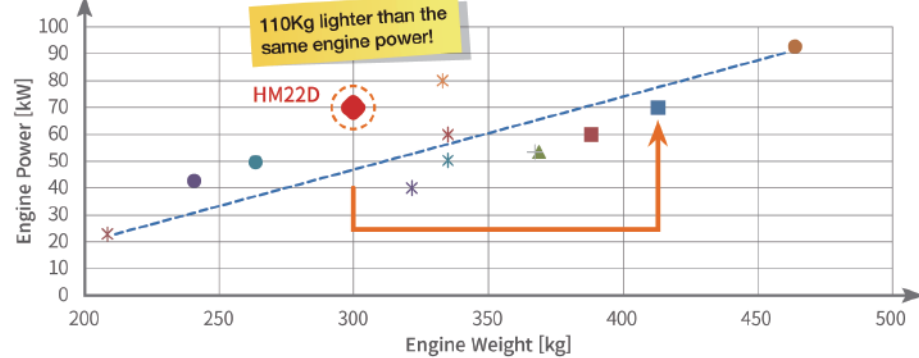


What's your concern about the marine generator?
Korea R&D's HIM Marine is with you.

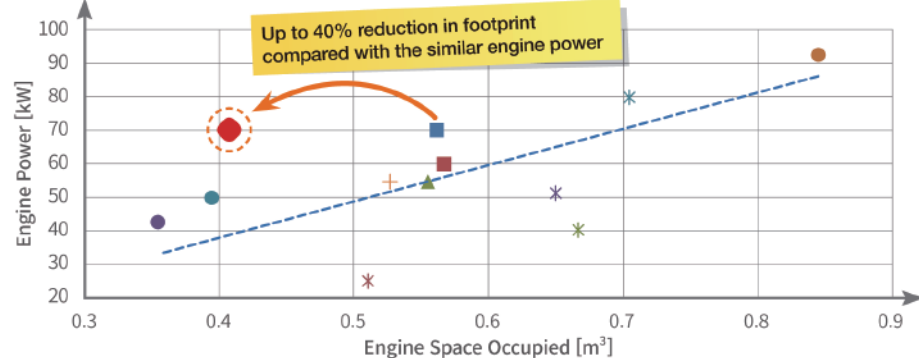
Compact, ultra-lightweight & ultra-small designed engine

It is an engine designed to be the smallest and lightest among generator engines of similar output range. When installed, it is smaller and lighter than conventional mechanical engines of existing competitors, thus space utilization is excellent in ships.

Engine weight comparison by generator engine power



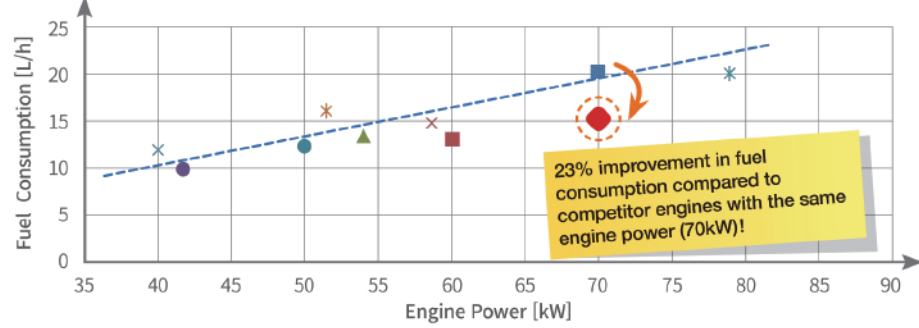
Comparison of engine space occupied by generator engine power



Electronically controlled CRDI engine can provide class thermal efficiency and Self-diagnosis!!

It is a latest engine with Electronically controlled engine control technology and is an optimized marine generator engine that enables low fuel consumption, high load stability, high speed stability, and self-diagnosis, which are essential requirements for marine generators.

Comparison of fuel consumption by generator engine power



※ It is possible to reduce the annual fuel cost by USD\$10,000!
 (Where, 5 hrs of operation per day, USD\$ 1.5 of diesel price per liter in Rep. of Korea)

SAMBO TECH CORPORATION VACUUM PACKER

Features of Vacuum Packing

The vacuum packer is designed to keep foods fresh and preserve them hygienically. For meat, vacuum packing can maintain freshness of meat, prolong the shelf life (chilled storage hours), prevent weight loss by blocking moisture evaporation, suppress acidification of fat and growth of microorganism, help meat well-aged and preserve its original taste and flavor. It also extends the freshness and shelf life of vegetables and various types of food, and prevents various types of industrial and electronic parts from getting corroded and dirty.

Application of Vacuum Packing

Beef, pork, pig feet, chicken, ham, sausage, fish cake, artificial crab meat, cheese, seasoning, squid, smoked products, yellow radish, onion, garlic, various types of vegetables and foods, medicine, various types of industrial and electronic parts, and etc.



Mini Vacuum Packer
SBV-280T



Drawer type vacuum packer
SBV-800H



Standard Vacuum Packer
SBV-400TS



Multiple Vacuum Packer (Vertical & Horizontal)
SBV-400VH



Rice/grain Vacuum packer
SBV-650KH



Heavy Vacuum Packer
SBV-600L



Double chamber type Vacuum Packer
SBV-400TS2



Long type Vacuum Packer
SBV-800L



So!Gnee Smart Sensor

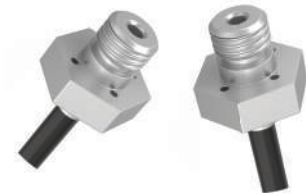
So!Gnee smart sensor is capable of simultaneous monitoring of temperature and vibration states for efficient operation and management of a smart factory.



So!Gnee Sensor (IP65)



Aluminum waterproof case (IP66)

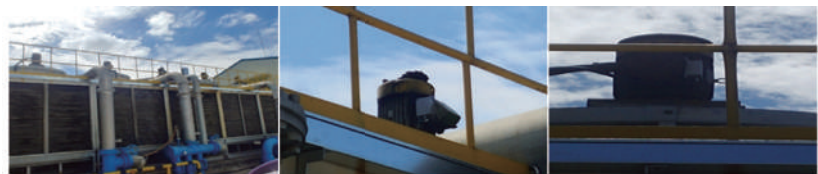


Bolt Probe Type

APPLICATION STRENGTHS

- Development optimized for monitoring through PLC
- Monitoring capability with utilization of universal HMI
- Simultaneous monitoring of temperature and vibration states after installation of sensors per equipment section
- Capable of minimum-delivery response as well as development response according to field situations
- Optimum monitoring and alarm functions with minimum investment
- Equipped for such responses as Application DB, pilot operation after installation, control, electrical construction, HMI monitoring, pilot operation, maintenance & repair, etc. as a business capable of performing control construction
- Sensor application enabled at rational prices

INSTALLATION CASES



Application cases for 5 places of cooling tower



Heaters

Pump Stations

Presses

Extruders

Winders

Mixers



MYUNGSUNG Automation & Technology Co., Ltd.

13-16, Jangdae-gil, Ochang-eup, Cheongwon-gu, Cheongju-si, Chungcheongbuk-do, Republic of Korea

Tel: (82-43)715-9580 Fax: (82-505)345-9580 E-mail: rnd@msant.co.kr sales@msant.co.kr Website: sognee.net

INQ.No. F291

PureBeta PLUS

Ultra High Purity Fine Ceramic (SiC) Powder

PureBeta PLUS is a silicon carbide powder synthesized through the direct reaction of silicon and carbon. basically high purity (3N) powder. And unit particle size is very fine and spherical characteristic, use for a variety purposes.

Ultra PureBeta PLUS is a silicon carbide powder that further removed heavy metal impurities. So, purity can be achieved at least 4N to 6N, which is used for semiconductor components and single crystal growth purposes.

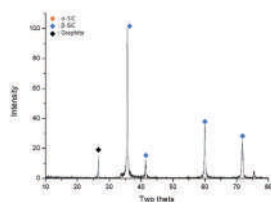


Physical Properties & Chemical Analysis Data

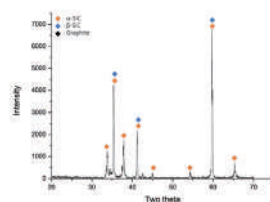
	Product name	Unit	PureBeta PLUS	Ultra PureBeta PLUS
Chemical Composition	SiC*	%	Min 99.9	Min 99.99
	Free-Carbon	%	Max 0.50	Max 0.50
	Free-Silicon	%	Max 0.02	Max 0.02
	Free-SiO2	%	Max 0.20	Max 0.20
	Fe	ppm	Max 100	Max 0.1
	Al	ppm	Max 30	Max 10
	Ni	ppm	Max 5	Max 0.1
	Na	ppm	Max 1	Max 0.1
	Cr	ppm	Max 1	Max 0.50
	Ca	ppm	Max 30	Max 0.50
	Mg	ppm	Max 0.5	Max 0.05
Physical properties	Appearance	-	Dark Gray Green	Green
	Phase	-	β -SiC	β -SiC + α -SiC
	D50	μm	25	25
	Unit Particle size	μm	0.5~2.0	3~20
	SSA (Specific surface area)	m ² /g	1	0.4

* Method of measure : Glow Discharge Mass Spectrometry (GDMS)

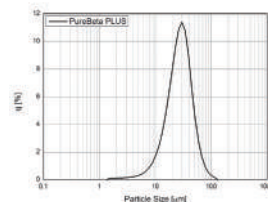
XRD & PSA



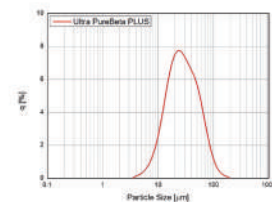
PureBeta PLUS



Ultra PureBeta PLUS

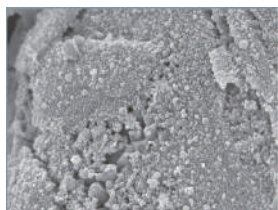


PureBeta PLUS

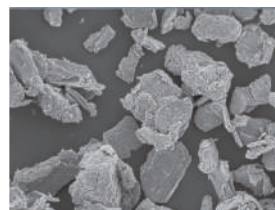


Ultra PureBeta PLUS

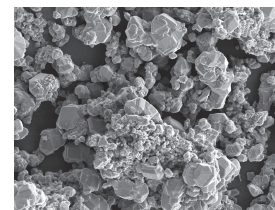
SEM



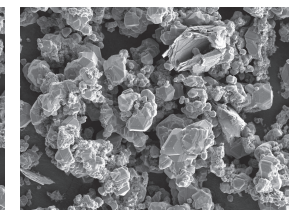
PureBeta PLUS-1



PureBeta PLUS-2



Ultra PureBeta PLUS-1



Ultra PureBeta PLUS-1

PLUS Advanced Ceramic Technology

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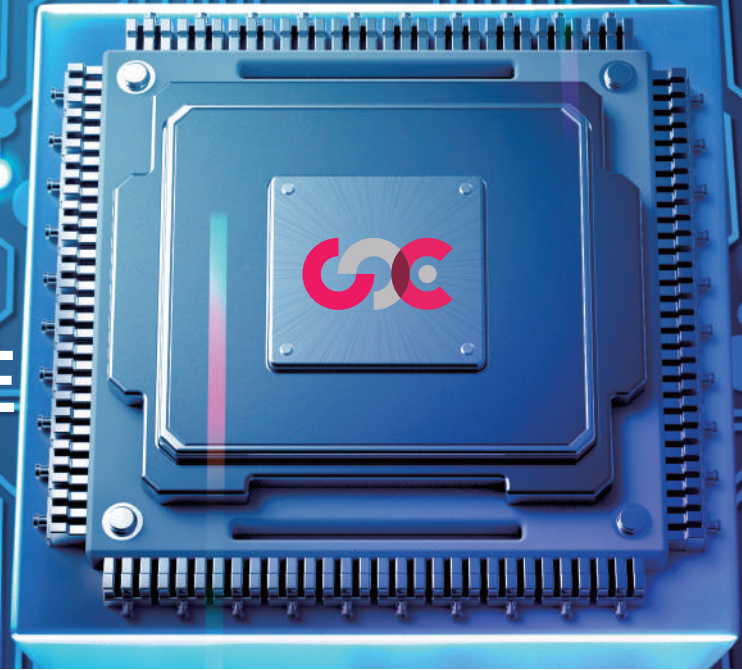
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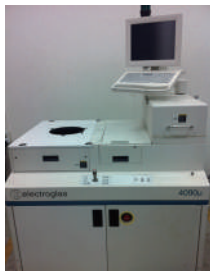
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