



# FOREIGN TRADE

OF THE DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA

JUCHE 102  
(2013)

2



# ENAMELWARE

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Taedonggang Tile Factory

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# Architectural Structures of Fresh Styles

Today in the DPRK architectural structures are built in fresh styles suited to the aesthetic requirement of Songun era. Modern streets, parks, pleasure grounds, theatres, cinema houses, high-rise apartment houses and welfare service amenities have mushroomed in Pyongyang, the capital city, and other places throughout the country. Introduced below are some of newly built monumental structures.



## - Changjon Street

Changjon Street was built in a grand style in downtown Pyongyang. It is one of the monumental structures in the new century which fully satisfied the latest architectural demands. The street constitutes an architectural group that is composed of grandiose high-rise apartment houses lined up along the picturesque Taedong River, the People's Theatre perfect in its forma

tive and artistic architectural style, ground and underground service facilities, the cosily built Children's Department Store and schools, a scenic park and green belts. Indeed, Changjon Street is a modern street consummate in its grandeur, cubic effect, diversity, formative and artistic representation. It is a full blossom of the people's ideal for architecture—distribution of buildings suited to natural, geographical and



climatic conditions and congenial to the life and sentiments of our people, settlement of spaces and vital functions, structure of buildings that made efficient use of mechanical features, diversified and rich methods for perfect harmony of buildings with their surroundings, accurate and refined handling of details of construction, and due reflection of architectural mood and building techniques.



## - Ryugyong Health Complex and People's Open-air Ice Rink

They were built as twin buildings under a wave-style roof, comprising a comprehensive building section, in good match with the appearance of Pyongyang that is being changed into the centre of Songun civilization. Proportion, scale and other measures for splendid harmony of construction



were applied in keeping with aesthetic feeling of the Korean people. Architectural rhythms, a mode of expressing the sense of movement of a building, are all ensured in a harmonious way, static and dynamic, graceful and cheerful modes of construction are well combined and the edges of buildings are formed in a curved and diverse way, thus meeting their modern aesthetic taste. Welfare service amenities were built on the principle of giving priority to convenience of the working people. The entrance hall and interior decorations of the Ryugyong Health Complex were laid out in a spacious yet delicate way to match with its peculiar architectural style.

The People's Open-air Ice Rink and

Roller Rink, where people can build up their physical strength and spend leisure time while playing ice- and roller-skating in all seasons, take an architectural form with a happy combination of rational structure with formative and artistic architectural style.

## - Rungna People's Pleasure Park

The Rungna People's Pleasure Park on Rungna Islet in the picturesque Taedong River is a monumental creation built suited to ideological sentiment and aesthetic aspiration of the Korean people. It ensures rationality of vital functions on such a high standard as to make maximum use of spaces with no vacancy. Dolphinarium ensures visual weight and balance between architectural elements in a proper way by depicting a



dolphin. Equipped with performance and auxiliary pools and public service amenities, it serves as a centre for showing stunts of dolphins and provides common knowledge of marine ecology to visitors. Minigolf course, wading pool and amusement park built in perfect harmony with natural environment of Rungna Islet assume different architectural styles. DPRK's architecture is developing with each passing day, facilitating construction of monumental structures in Songun era and giving full play to its vitality in

overseas construction. The Korea General External Construction Corporation, Mansudae Overseas Project Group of Companies and other corporations concerned are dispatching competent architects, creators and skilled builders to many countries in Asia, Europe and Africa and building dwelling houses, public establishments, palaces, monuments in keeping with their national characteristics and natural environment. DPRK' architecture that combines national identity and modern characters in a proper manner is in the limelight worldwide.





# Taedonggang Tile Factory



The Taedonggang Tile Factory is a comprehensive production centre of a wide variety of building-materials, including titles for interior and exterior walls,

flooring tiles, marble tiles, ornamental tiles and roofing tiles.

Recently, the factory has undertaken its modernization project for mass-producing a rich selection

of large-sized, high-grade building materials such as microcrystalline glass, complex glass tiles and artificial marble tiles in accordance with the ever-increasing

local and overseas demand for them. It has also completed the gasification process of anthracite for calcination of tiles.

Besides, it produces high-grade transparent glass and microcrystalline glass beautiful in colour and pattern according to additives, both of which are made of sand high in silicic content.

The whole production processes of the factory fed with locally available raw materials are controlled by computers.

All its products ensure the highest standard of quality in superficial and right-angle dimensions, contraction and cold resistance.

The factory is concentrating its efforts on enlarging the kinds of tiles and upgrading their quality.





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## Manufacturing Technology of Cold Welding Materials

It arises as a pressing issue in welding operation to obtain perfectly welded joint part free from HAZ destruction only by cold welding so as to weld such materials great in quenching crack as cast iron and special steel. For this solution, the Unchong Technology Trading Corporation has developed a new technology of manufacturing welding materials which is able to obtain welded joint part completely free from HAZ destruction.

The cast iron cold welding rod with nickelless steel core wire, a product of new technology, is made of ordinary steel core wire (C: 0.08-0.22%, SiO: 0.03-0.5%, Mn: 0.4-0.8%, S: 0.03-0.048%, P: 0.03-0.04%) and basic coating materials like marble and fluorite. As it is low in production cost and is free from HAZ destruction, the demand for it is on the increase.

An international application (No.: PCT/KP 2010/000021, Priority date: August 2, 2010) of this special welding rod was registered at PCT in December 2010 and the bulletin (international publication No.: WO2011/096598A1) on its informa-

tion was distributed to 135 countries in August 2011.

It is able to cold-weld all sorts of cast iron and restore with ease large and extra-large castings to be cracked under overload of over 500MPa.

The corporation has developed diverse kinds of special welding rods with no HAZ destruction by applying this new technology to the manufacturing of cold welding rods.

These special welding rods are bringing immense profits to different fields of the economy.

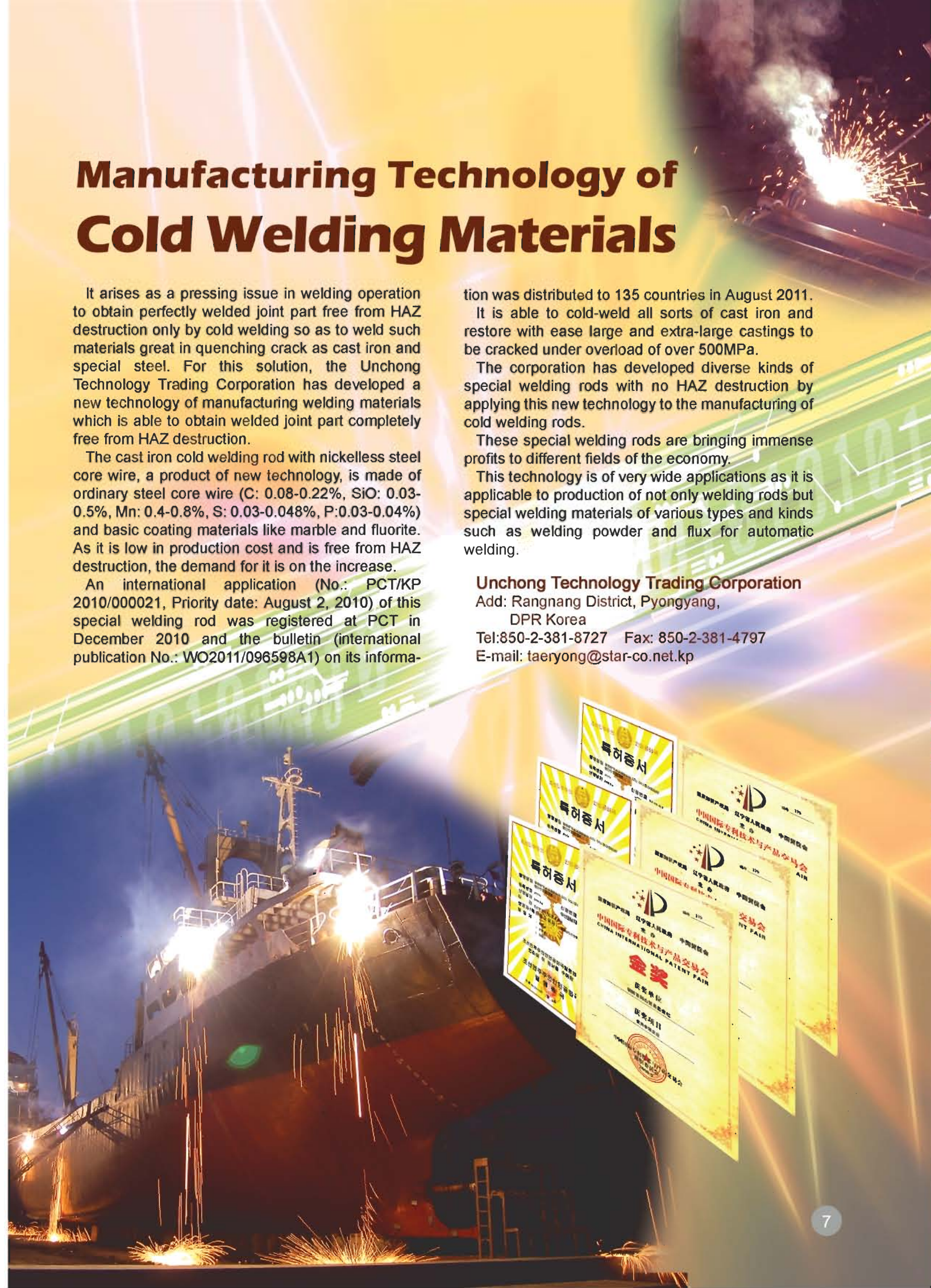
This technology is of very wide applications as it is applicable to production of not only welding rods but special welding materials of various types and kinds such as welding powder and flux for automatic welding.

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# Solar Heat Equipment Development Centre



The Solar Heat Equipment Development Centre specializes in the development, production and sale of green energy products and technical services for them.

The centre is equipped with the latest facilities for development of solar water heaters in keeping with the requirements of the rapidly developing solar energy technology.

It manufactures three types of solar heaters according to environment and usage; single-unit heater with a small capacity, single-unit heater with a large capacity and separation-type heater.

The heater is composed of thermo-insulating water tank, vacuum-type heat collecting pipe and supporter. It ensures a long service life and high heat-insulating efficiency as it is made of plastic strong in resistance to acid, salt and corrosion.

Its main part is vacuum-type heat collecting pipe.



The surface of its boron silicon glass 3.3 is coated with selective solar heat absorbent by evaporation technology of magnetic field-controlling arsenic acid so as to enhance heat-collecting efficiency to the maximum. Therefore, it has high thermal-insulation efficiency and strong shock proof.

Its heating efficiency is 55-60%, far higher than that of solar batteries and other recycling energy products.

It is easy to install and wide in application, high in aesthetic value and friendly to environment, while economizing on natural resources.

The Solar Heat Equipment Development Centre is channeling its efforts into development, production and application of new products by enlarging the domain of using solar heat energy.

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# Hungnam Kwangmyongsong General Fish Processing Factory



The factory was set up as an affiliate of Hungnam Taegyong Fishery Enterprise in April Juche 101 (2012). It is located in Hungnam District, Hamhung, South Hamgyong Province.

It is a comprehensive processing base of marine products with a total floor space of 10 000 m<sup>2</sup> and a refrigerating capacity of thousands of tons of fish. It is furnished with the latest processing facilities and package-making equipment.

The factory produces hundreds of kinds of processed fish such as fish ball and sausage, steamed, seasoned, hard-boiled, dried, fermented, salted, sliced and roasted fish and fish meal.



They are enjoying a good reputation among customers for they are nutritious and fragrant and have unique tastes and colours.

The fish ball and sausage workshop, provided with ultrafine crusher, dough-making machine, fish-ball shaper, fish-sausage shaper, double boiler, sterilizing autoclave, quick-freezer and vacuum packer on a flow line and infrared sterilizer, turns out thousands of tons of fish balls and sausages every year.

Fermented and salted fish workshop prepares a wide assortment of fermented and pickled fish by means of machines of stirring, penetrating and mixing seasonings.

Seasoned fish workshop is provided with steam-drying oven and steam dryer and infrared electric roaster.

Steamed fish workshop is equipped with double boiler, cooler and precooler.

The factory has also hard-boiled fish workshop which prepares hard-boiled fish by mixing various seasonings according to kinds of fish.

All workshops are furnished with modern flow-line processes for thorough inspection of metals and impurities.







A strict hygienic system is established in the factory to meet the requirements of GMP.

The workplaces are equipped with ozonizer, water absorber, 20m<sup>3</sup> ozonic water tank and sanitary facility.

Fresh water cooling machine (5m<sup>3</sup>/h), ice machine (10t/day) and underground water tank (250m<sup>3</sup>) are installed to ensure regular provision of cold water and ice.

Research work is done for ensuring freshness of fish and upgrading the quality of processed fish.

The package-making workshop equipped with foamed plastics moulding machine and PP packing machine produces plastic coolers (5, 10 and 15kg), plastic packages (250, 300, 500 and 700 g), cooling agent and plastic containers for salted fish.

All the production lines of the factory are under computer control.



The factory exerts efforts to develop and produce a wider assortment of nutritious and tasty processed fish by the cutting-edge processing technology.

Orders are welcome. Please contact:

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# Products from Ryonggwang Jongthae

**Ryonggwang Jongthae Electric Technology J.V. Company**  
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The Ryonggwang Jongthae Electric Technology J.V. Company engages in research, development, production and application of sophisticated electronic devices for electric power.

Its major products include high- and low-tension frequency converter, high- and low-tension switchboard, automatic voltage regulator, automatic power-factor compensator and UPS.

The company is staffed with promising experts in electronic technologies for electric power and equipped with all necessary conditions for develop-

ment and production of electronic devices.

Its affiliated factory is fully provided with processes for programming, assembly, inspection and load test to guarantee technical specifications of products.

A number of its products applied to many factories are paying off now in good technical conditions, and the demand for them is on the increase.

The company will, in future, reinforce its research team to push back the frontiers of technology and establish new business strategy of developing electronic devices for electric power.





# “Jonggang” Tractor

**Specifications:**

Engine output        18 hp  
 Type                    7Y-1150D-2  
 Loading capacity    1 ton  
 The tractor is designed to perform various farm works in both plain and mountainous areas.



**Rason Jonggang Processing Corporation**

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 Fax: 850-085-293418





# Pyongyang-Regional Resources Oil J.V. Company



The Pyongyang-Regional Resources Oil J.V. Company was established in March 2008 by joint efforts and investment of Korea Samjiyon Trading Corporation and MP Regional Resources SDN BHD of Malaysia.

Its principal item is palm olein oil, an edible oil of golden colour, made through refining, bleaching and deodorization processes. It is good for health and ideal for cooking. Palm oil with a small amount of

cholesterol is rich in vitamin E. Besides, it contains not only anti-oxidation substances efficacious for prevention of various diseases including cancer and coronary cardiac disorder but also natural carotinoid which acts as a nutrient for the human body.

Rich in  $\beta$ -carotene that has function of vitamin A, it takes a good effect on vitamin A deficiency.

The oil can be repeatedly used about ten times for frying dishes because greaves, carcinogenic substances and impurities are not generated at a frying temperature.

The company has built storage tanks with thousands of tons of oil in Waudu District, Nampho, a port city on the West Sea of Korea and is furnished with modern packing equipment and transportation means.



All its edible oils processed under stringent international standards of hygiene are packed in drums and plastic bottles of 198 kg, 190 kg, 1kg, 3 lit., 5 lit., 20 lit. and 25 lit. as well as 20-ton containers in bulk.

The company is enlarging the scope of business activities in close collaboration with other countries on the credit-first principle.



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# Pyongyang Lift J.V. Company

The Pyongyang Lift J.V. Company, established in 2007, engages in production and installation of lifts for apartment houses, hospitals and other public buildings.

The company carries on production of lifts on assembly line fitted with CNC drills, benders and cutters.

Lifts produced here ensure high performance and reliability.

The company developed various parts of medium-speed lifts used in apartment houses, including light sensor and optical backstop wing. It also introduced jigs and other devices for measuring the lay ratio of rails and tension of wire ropes and renovated various processing programs for CNC machines. These technical and material foundations guarantee the quality of its products.

They were installed in newly built apartment houses in Changjon Street and other structures.

The company will, in future, provide high-rise structures with up-to-date lifts and make a tangible contribution to the development of lift-making industry.

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# We Offer You a Rich Selection of Ornamental Glass



The Haewon J.V. Company is a provider of various ornamental glass products. It is mainly engaged in custom-made production.

Ornamental glass produced here is completely free from decolourization and corrosion because diverse kinds of beautiful patterns are printed and adhered on surface of glass by means of special technology.

Its glass products include billboard, signboard, landscape, street decoration board, ordinary sliding door, folding-type sliding door, doors for closet, cabinet, clothes chest and room, and furniture. Particularly, ordinary sliding door, folding-type sliding

door and room door are convenient for use and add elegance to the room, thus enjoying popularity among customers.

Door frame guarantees durability for it is made of Ti-Mg alloy. The company also renders service for glass cutting and grinding.

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# Korea Mangyong-Sogam Trading Corporation

The Korea Mangyong-Sogam Trading Corporation is widely known as a manufacturer of a wide range of Koryo medicines and health supplements prepared from rare medicinal herbs which have been gathered



in the virgin forests. It was set up in July 1997.

The corporation has under its control the pharmaceutical factory whose production processes ranging from feed of raw materials to quality inspection and packing are strictly carried on according to GMP standard.

Efficacy, security and stability of its products are fully guaranteed by means of the latest analyzing and inspection facilities and the cutting-edge technology.

The Koryo medicine extraction and concentration workshop for extracts of Koryo medicines built of late on a modern basis is furnished with multi-function extractor, vacuum concentrator, alcohol rectifying tower, defecating tank and other equipment so as to mass-produce choice extracts.

Its principal products comprise more than 100 kinds of Koryo medicines and health supplements, including Angunguhwanghwan, Uhwangchongsimwon, Kyongokgo, Yulmu-Changchulgo, Kugijago, Yangchun-samrok capsule, Koryo Insam Tea, Pine Pollen in Honey and Mulberry Leaf Tea.

Angunguhwanghwan, Uhwangchongsimwon, Koryo Insam Tea, Pine Pollen in Honey, and other Koryo medicines and health supplements have gained public favour as popular items in several international commodity fairs.

Wangwan brand of its products was officially registered at WIPO in Geneva, Switzerland.

The corporation will, in future, enlarge the kinds of Koryo medicines and health supplements and promote exchange and cooperation with counterparts, adhering to the credit-first principle in business transaction.



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## Pyongyang IP Centre

The Pyongyang IP Centre (PIPC) is an agency which deals with intellectual property, legal matters and technology transfer.

Established thirty years ago, PIPC formed a network of intellectual property protection involving patent agencies from more than 70 countries and regions around the world, receiving every year thousands of applications for patent, trademark, industrial design and litigations and providing technical and legal services.

Through the domestic branch offices, it also conducts nationwide IP training courses, seminars, exhibitions and technology exchanges.

PIPC is made up of veteran patent and trademark agents, attorneys, tech-transfer experts and other specialists in charge of various fields of technology.

Situated in the Central District of Pyongyang, it is in the neighborhood of the Trademarks, Industrial Designs and Geographical Indications Office of the DPR Korea, which makes it quite advantageous in its

business dealings.

The Patent Department with tens of patent attorneys, competent patent agents inclusive of doctors of engineering, lawyers and postgraduates accepts and handles foreign patent applications in the fields of biotechnology, medicine, pharmaceuticals, chemistry, mechanical engineering, electronics, electrical engineering, physics, civil engineering, informatics, agriculture, etc.

The practice of the department also covers the acceptance and prosecution of PCT international applications and national patent applications along with drafting of patent specifications, answers to statement for examinations, handling of legal proceedings, investigation of infringement cases and settlement of annuity.

And its members take parts in such international training courses and meetings as WIPO and SIDA training courses every year to strengthen exchange and cooperation with many colleagues worldwide.



The business languages are Korean and English.

The work of the Trademark Department comprises filing of applications, transfer and licences, contract negotiations, searches and lawsuits concerning trademarks, industrial designs and appellations of origin.

According to the Paris Convention for the Protection of Industrial Property, the Madrid Agreement Concerning the International Registration of Marks and the Protocol Relating to the Madrid Agreement, it receives, registers and protects foreign trademark applications. The total number of applications amounts to about one thousand per year.

The Technology Transfer Department formed a service network of transfer so as to carry on the international tech-transfer for domestic enterprises, universities, colleges and scientific research institutes. It also helps foreign research organizations and business enterprises in the joint research and development.

In future, the Pyongyang IP Centre will also try its best to provide far better technical and legal services based on the firm business foundations, substantial ability, and creative and advanced rich experiences.

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## Industrial Art of Korea

Industrial art comprises a genre of fine arts that draws a design for making industrial goods and living environment beautiful, convenient and useful. It is represented in close combination of practical aspect with aesthetic one.

Today when production constantly increases along with the rapid development of science and technology, the issue of designing style, shape, colour, brand and package of commodities arises as a more urgent and essential demand.

In the DPRK industrial art has developed on a Juche-oriented stand and in a creative way in line with the socialist mode of life to serve as a powerful means that provides a great stimulus to improvement of the people's living standards and the building of the independent national economy.

The DPRK Trademark, Industrial Design and Geographical Indication Office takes charge of all affairs related to industrial art in the DPRK.

The office is assigned to enhance social concern for industrial art on a nationwide scale, and supervise and control in a unified way its creation, registration and introduction into production.

A large number of experts and creators specializing in industrial art are being trained at the universities and colleges and different kinds of industrial art created in research institutes and institutions.

Industrial art develops into an important sector that contributes to economic development of the country under the deep concern and guidance of the government.

The office has an integral work system, legal foundations, well-knit creative structure and strong research forces.

It is a consistent stand of the DPRK government to enhance the creative ability of the people, protect the wealth they created and ensure the proper circulation of goods.

The DPRK Trademark, Industrial Design and Geographical Indication Office is promoting exchange and cooperation with WIPO and different countries to render considerable services to economic development of the country and promotion of the well-being of the people.

**Trademark, Industrial Design and Geographical Indication Office of the DPRK**

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# Pyongyang Folk Park

*The Pyongyang Folk Park is a people's cultural recreation centre showing the time-honored history and brilliant culture of the Korean nation and is also significant as a tourist attraction. Covering a total area of over 200 hectares, it is located at the foot of Mt. Taesong in Taesong District, Pyongyang.*



Korea. In each area historical remains and relics, modern structures and scenic attractions are on display in full size or in miniature.

The historical relics exhibition area provides a clear glimpse of a pithecanthrope, a paleolithic man and a neolithic man, and caves, straw-thatched huts, dwelling houses and dolmens in the Paleolithic and Neolithic ages, as well as relics and

and relics including the pagoda in Kumgang Temple from the period of Koguryo Dynasty and other pagodas, Sokgul Grotto, a temple in the form of grotto in Later Silla, the







In the folklore village area with typical structures of the historical ages of Korea and materials of old customs visitors can learn about folk traditions and good manners and customs of the Korean people, including customs of foods, clothing and housing, family etiquette, greeting manners, folk games and music.



The folk games area is in the spotlight of visitors, where they can enjoy themselves playing folk games in the open-air general amusement ground and amusement hall. For the convenience of visitors sightseeing cars are running and resting places were laid out in several places.

The Pyongyang Folk Park is a favourite haunt of local people, overseas Koreans and foreigners.





# Pyongyang Essential Oil Factory

The Pyongyang Essential Oil Factory is a comprehensive synthetic essential oil maker.

It turns out varieties of flavours extracted from apple, strawberry, peach, butter and vanilla, industrial-use essential oils for cosmetics and liquid perfumes for body, rooms and cars.

Equipped with modern analyzing facilities, the factory employs many technicians and experts engaged in upgrading the quality of products and developing new items.

It makes every possible effort to develop the country's essential oil industry and mass-produce new kinds of products competitive in foreign markets.

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# Ryongjin J.V. Company

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The Ryongjin J.V. Company has been well known as a maker of a rich selection of refreshing drinks.

The company equipped with up-to-date flow-line processes is now making tasty carbonated apple, peach, strawberry, cocoa, orange and lemon juices, and strawberry, peach, pineapple and coffee milks as well as blueberry jelly.

Ryongjin liquor distilled from acorn and blueberry liquor are hot articles in the market.

Its drinks are unique in taste as they are produced with highly efficacious Ryongaksan Mineral Water gushing out at the foot of Mt. Ryongak, called "Mt. Kumgang in Pyongyang."

In the past, its products were awarded the best prizes and diplomas on several occasions at the national commodity exhibitions.





# Water Sterilizers

The Korea Kumhwa Technology J.V. Company is a prestigious developer of sophisticated water sterilizers. They are designed to produce complex antiseptic solution containing ozone, hydrogen peroxide and activated chlorine by electrolyzing salt water whose concentration is low and then sterilize water.

They are finding their way into foreign markets in Europe, South-east Asia and Africa as well as domestic markets.

The company is engaged in sale and installation of apparatuses, hi-tech development and training of technical personnel.

Upon clients' order, it renders technical service for installing them in water refining plants, swimming pools, bathhouses, hospitals and foodstuff factories.

## Specifications

Power consumption: 5Wh/1m<sup>3</sup> of water

Amount of salt: 1-2g/1m<sup>3</sup> of water

Water sterilizing capacity:

Models	Capacity
EC-30	600-1 200m <sup>3</sup> /day
EC 50	1 000-2 000m <sup>3</sup> /day
EC-100	2 000-4 000m <sup>3</sup> /day
EC-800	16 000-32 000m <sup>3</sup> /day
EC-1600	32 000-44 000m <sup>3</sup> /day



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# PYONGYANG GENERAL TECHNOLOGY CORPORATION

The Pyongyang General Technology Corporation is an IT development centre engaging in development of software and hardware and technological services and consultation for IT-related matters. It was established in 1986.

At present the corporation is developing a wide range of software such as Korean language information processing, computer-aided 3D designing, web- and network-related programs, virtual reality, mobile application programs, card system and embedded software, and hardware including tablets and card-type hardware. Korean word processor "Changdok," Korean language input programs "Tangun" and "Hana," 3D architectural CAD "Konsol," integrated network security system, e-certification system and key school. They are widely applied to different sectors in the country.

The corporation stationed its branches in many countries of the world and conducts brisk activities for technological cooperation and exchange and development of software on clients' orders.

It develops programs on consignment such as 3D processing tools, mobile games and 3D mobile engine, fonts, electric circuit CAD, 2D design system for real estate advertisement, accounting system, banking management system, RF card system and 2D/3D animation and web design. It also engages in joint development for embedded software, accounting book for engi-neering, sales management system, information management system for communication-related work, XPS document conversion system, Banner management system and construction budget management system.

The general corporation will, in future, make every possible effort to promote technological cooperation and exchange with IT companies of the world.

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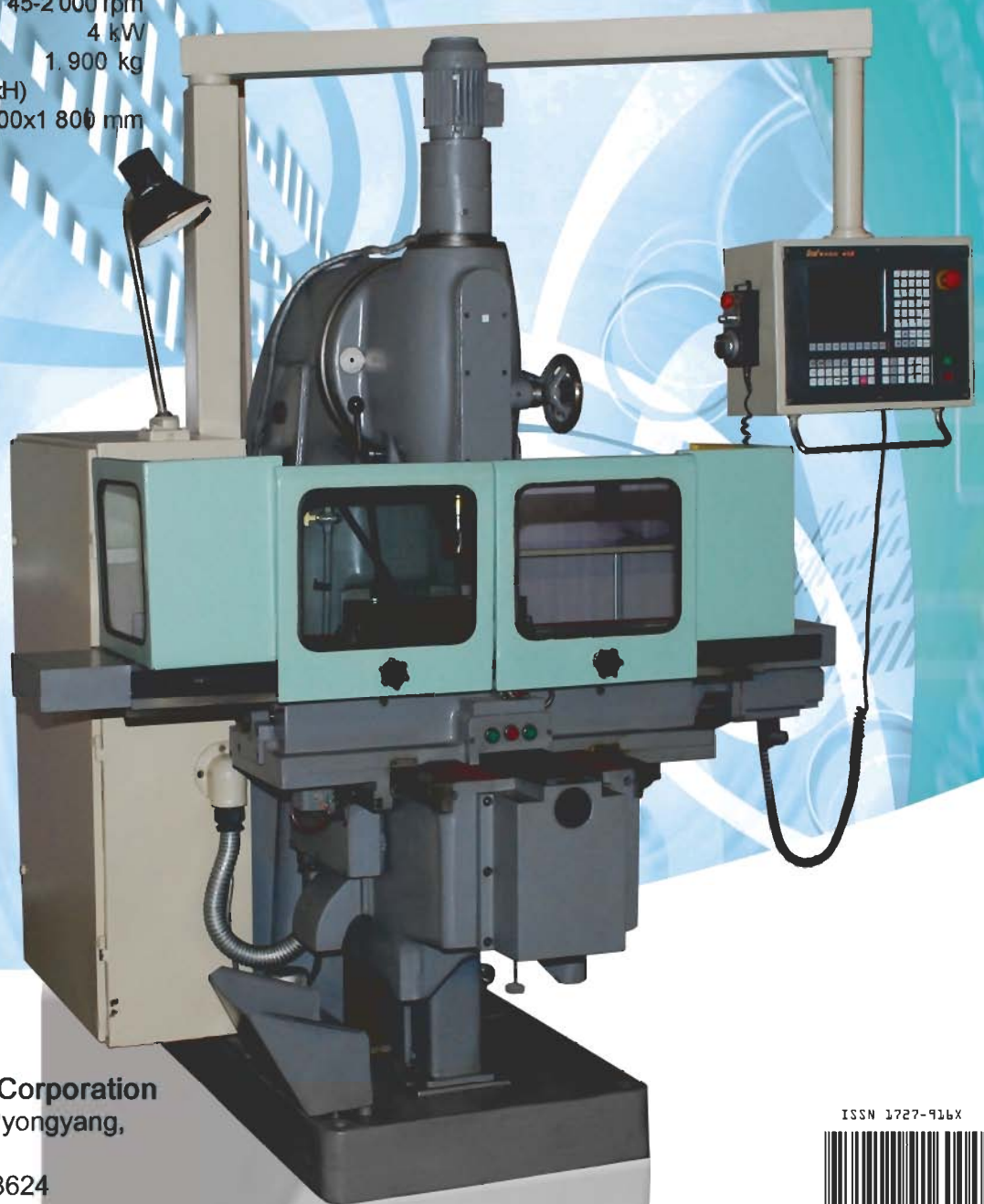
# CNC MILLING MACHINE

## “CM12-300”

It is intended to mill plain, slanted and curved surfaces, grooves and other complicated shapes of parts.

### **Technical specifications**

Size of table 300x1 250 mm  
Table traverse 700x275x350 mm  
Range of spindle speed 45-2 000 rpm  
Main motor output 4 kW  
Weight 1.900 kg  
Outer dimensions (LxWxH)  
1 900x1 800x1 800 mm



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