

Head Office

Tokyo Head Office

A RENGO CO., LTD.

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http://www.rengo.co.jp/english/index.html



RENGO Corporate Guide







The Rengo corporate logo has its origins in a stylized version of the Japanese characters "san" (three) and "sei" (achieve) used in the original name of the company, "Sanseisha," when it was first founded by Teijiro Inoue in 1909. Use of the original symbol continued even after the successor company, Rengo Shiki K.K., was established, since it was considered to be graphically representative of the characters for "ren" (continuous) and "go" (putting together) in the context of corrugated materials. The Rengo corporate logo is thus a symbol of our history and identity.

kaging Industry

Growing beyond Packaging through Innovation "General Packaging Industry (GPI)" Rengo

Since manufacturing the first corrugated board in Japan in 1909, the Rengo Group has striven to respond to the needs of customers for value-added packaging, as well as contribute to society by helping to optimize the flow of products through the distribution process.

Recent years have seen packaging requirements become more diversified and demanding as the lifestyles of people change and their environmental awareness increases. Based on a wide-ranging product lineup, a highly refined service network, and a wealth of packaging technologies built up over the years, the Rengo Group has continued to study the most efficient, optimal forms of packaging for our customers.

We employ a reliable, fully integrated production system, from paperboard to corrugated packaging. Our business domains cover folding cartons, flexible packaging and other forms of packaging for consumers, as well as heavy duty packaging used in a wide variety of different industries, and even extend to cater to overseas markets. This structure allows us to achieve substantial synergistic effects and deliver diverse packaging solutions.

Intrinsically suited to recycling, corrugated board primarily utilizes recovered paper, which is recyclable and eco-friendly, as its raw material. As the birthplace of corrugated board in Japan, the Rengo Group considers the concept of "always caring about people and the environment" as the cornerstone of our business activities.

- Not only do we maintain strict controls with respect to air and water pollution, but we also proactively seek to use energy and resources as efficiently as possible while giving consideration at all times to the minimization of environmental impact and reduction of CO2 emissions.
- Over time, in addition to their fundamental functions of product packaging and protection, corrugated board and other packaging materials have incorporated decoration and printed information on their surfaces. As such, they have the potential for further advances in the future as tools enabling people to communicate with one another.
- The Rengo Group defines itself as a "General Packaging Industry" that creates new value in packaging in a wider range of fields and actively proposes solutions to fulfill all the packaging needs of various industries through continual changes in thinking and innovation. With our eyes on further enhancement of our overseas operations in the light of advancing globalization, Rengo will continually commit to being active and taking on new challenges, both in Japan and worldwide, thus promoting the sustainable development of the economy and society and enriching more comfortable lifestyles.

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Kiyoshi Otsubo Chairman, President & CEO



We are a comprehensive packaging provider that actively proposes solutions to fulfill all the packaging needs of various industries

The Rengo Group has provided optimized solutions to packaging needs through comprehensive capabilities that employ the group's packaging technology and expertise accumulated over many years. Today, the Rengo Group is conducting diverse business in six core fields: paperboard, corrugated packaging, folding cartons, flexible packaging, heavy duty packaging, and overseas business.

By acting as an accomplished packaging partner, the Rengo Group seeks to become a packaging provider that proposes comprehensive solutions to fulfill all the packaging needs of various industries through continual changes in thinking and innovation. In order to achieve this goal, Rengo is defining itself as a "General Packaging Industry," and as such we are committed to staying one step ahead of the times so we can create meaningful packaging with true value that is friendly to people and the environment

The General Packaging Industry



Group Network

Our production network is expanding both domestically and overseas. Our sales representatives positioned throughout the network gauge customer needs in their respective regions and provide reliable responses.

Domestic Network (directly managed plants)

Paper mill 5	(Folding carton plan	t 3	-	-	-
Corrugated plant 25		Other	1			

Rengo Group Companies in Japan

- Paper / Paperboard Marusan Paper Mfg. Co., Ltd. / Osaka Paper Co., Ltd. Corrugated packaging / Yamato Shiki Co., Ltd. / Settsu Carton Co., Ltd. / Tokai Shiki Co., Ltd. / Hinode Shiki Kogyo Co., Ltd. Folding cartons and 38 other companies
- Flexible packaging Howa Sangyo Co., Ltd. and one other company
- Heavy duty packaging Nihon Matai Co., Ltd. / Tri-Wall Japan Co., Ltd. and one other company
- Other businesses Rengo Logistics Co., Ltd. / Rengo Nonwoven Products Co., Ltd. and 17 other companies

Rengo Group Companies Overseas

- Asia / Europe / Middle East / U.S.
- Total of 125 plants and 20 representative offices / sales companies

Product Lineup

packaging

Makes it possible to propose a wide range of products to customers, including not only corrugated boxes, but everything from folding cartons to film packaging that directly wraps individual products.

Paperboard	Folding Cartons			
 Containerboard 	 General-purpose cartons 			
Boxboard	Gift packaging			
Tube board	Multi-packs			
Chipboard	 Micro-flute corrugated board 			
Processed paper	● FLUTEPRESS			
Corrugated Packaging	Flexible Packaging			
• General-purpose corrugated packaging	Film wraps			
Fire-retardant corrugated board	● Labels			
Water-resistant and moisture-proof	Cellophane			
corrugated packaging	Molded packaging			
 Freshness retaining / Insect repelling corrugated packaging 	Cleantainer			
Antirust and antistatic		•		
corrugated packaging		•		
Decorative corrugated				

Corrugated pallets

Research & Development

Rengo provides comprehensive support for the entire packaging process of products in order to meet the packaging needs of customers, while taking into consideration sales promotion benefits and overall cost.

Packaging Technical Department

• Designs transport packaging and cushioning materials, conducts various packaging tests, and develops packaging technology such as no-staple corrugated boxes and Universal Design products

Design and Marketing Center

Devises product promotion plans and proposes packaging designs and sales promotion tools based on marketing concepts.

Central Laboratory

• Conducts research on materials and production methods for paperboard and corrugated board, and develops new functions and new products.





Heavy Duty Packaging

- Flexible bulk containers
- Heavy duty polyethylene bags
- Kraft paper bags
- Heavy duty corrugated packaging

Sales Promotion Tools

- POP advertisements
- Other tools

Packaging Machinery

- Packaging systems
- Casers
- Case/trav erectors
- Sealing machines

Functional Materials

- Viscopearl beads
- Wasaveil, WaSAAce
- Cellgaia
- Viscose-processed paper
- Tinted film

Other

- Resin processed products,
- laminated products
- Nonwovens
- Adhesive tape, hot-melt adhesive
- Logistic services / other







"Less is more."

The base concept behind Rengo's packaging innovations.

"Less energy consumption"

- "Less carbon emissions"
- "High quality products with more value-added"





The Beginning of the Age of "L" Shin-Nagoya Plant

A Leading-edge Corrugated Plant Thoroughly Dedicated to the Concept of "Less is More."

Always at the leading edge.

At the Rengo Group, that is one of our missions as a company that contributes to society through packaging. The Shin-Nagoya Plant, which began operations in January 2014, is a new initiative focusing on the coming age of linear motors.

The new plant is full of many leading edge technologies and various techniques for environmental conservation injected with the pride of being a pioneer in corrugated packaging. As the leading company in the packaging industry, under the key phrase of "Less Weight, Less Carbon," we have worked to use less carbon in corrugated packaging by making it more lightweight through technology such as Less Caliper & Carbon (LCC) containerboard and Delta Flute. We will now open up the future of packaging by pioneering a completely new corrugated plant that creates great value with fewer resources, in other words, "Less is more."



Bird's-eye view of the Shin-Nagoya Plant



ally isolated automated warehouse



Panoramic view of the corrugato





Photovoltaic panels on the plant building roc



Automatic guided vehicle



Converting equipment

Rengo's Domestic Production Plants

Paper Mills

Top containerboard production volume in Japan **Yashio Mill**

The Yashio Mill is a highly efficient mill located in the Tokyo metropolitan area that provides a wide range of products for this massive market, including corrugating medium, linerboard, tube board, and chipboard. This is the number one mill in Japan in terms of the production volume of paperboard. Most of the raw material for the paperboard comes from recovered paper collected in the metropolitan area. The mill is also considerate to the local environment, having undertaken such measures as a major reduction in CO2 emissions through the introduction of energy-efficient facilities that generate electricity such as biomass boiler and other methods.

330 Nishibukuro, Yashio-shi, Saitama Prefecture, Japan 340-0833 Location Tel: +81-48-922-1131 Fax: +81-48-924-8639 April 1964 Operations commencement

Diverse functions, from paperboard production to printing and converting **Tonegawa Division**

The Tonegawa Division has diverse functions, from paperboard production to printing and converting. The paper mill is the flagship plant for Rengo's paper business, not only in terms of scale and facilities, but from the perspective of production volume and developmental prowess as well. Equipped with a No. 1 paper machine for boxboard and a No. 4 paper machine for linerboard production, the plant manufactures a broad range of products. Meanwhile, the printing and converting business is becoming the supply base for Eastern Japan in terms of processed paper for decorative corrugated packaging. It is also becoming the main base responsible for the production of multi-pack products, particularly canned beer six-packs.

- 5269 Iwai, Bando-shi, Ibaraki Prefecture, Japan 306-0631 Location
- Tel: +81-297-35-2301 Fax: +81-297-35-1484 Operations commencement
- Paper mill: October 1961; Folding carton plant: April 1999; Printing and converting plant: July 1987







Corrugated Plants

Flagship plant for corrugated packaging **Tokyo Plant**

The Tokyo Plant, which is located within the greater Tokyo metropolitan area, the primary region of demand within Japan, is our flagship plant for corrugated packaging, equipped with one of the largest corrugators in Japan. With a veritably long history among our manufacturing facilities, the Tokyo Plant brings together outstanding engineering and know-how to meet the diverse needs of the Tokyo metropolitan market. All of the processes-from receiving the paper roll to corrugating, converting, and shipment-are uniformly managed under an integrated production management system called COMETS, increasing productivity and thoroughly ensuring improved quality and service.

 Location 5-14-8 Ryoke, Kawaguchi-shi, Saitama Prefecture, Japan 332-0004 Tel: +81-48-225-7111 Fax: +81-48-223-7163 Operations commencement
 February 1937

Plant that symbolizes the concept of "Less Weight, Less Carbon" Fukushima-Yabuki Plant

Featuring a total of around 9,000 photovoltaic panels-which supply all of the plant's davtime electricity needs and make this one of the largest projects of its kind in Japan-alongside use of clean energy in the form of liquid natural gas (LNG), and a diverse range of energy-saving equipment, the Fukushima-Yabuki Plant is the ideal corrugated plant for the 21st century and represents the crystallization of all the expertise in environmental technology that Rengo has accumulated up to now. By making maximum use of naturally available resources and promoting energy recovery and recycling, we have achieved a CO₂ emissions reduction of around 40% compared to the previous plant. It is an eco-friendly plant that quite literally embodies the concept of Less Weight, Less Carbon.

Location 115-1 Suwanomae, Yabuki-machi, Nishishirakawa-gun, Fukushima Prefecture, Japan 969-0247 Tel: +81-248-41-2055 Fax: +81-248-41-2066 Operations commencement May 2010











Paper Mills



Kanazu Mill Location
 1-8-10 Jiyugaoka, Awara-shi, Fukui Prefecture, Japan 919-0698 Tel: +81-776-73-1234 Fax: +81-776-73-7038 Operations commencement . May 1961

Corrugated Plants



Eniwa Plant Location
 193-3 Toiso, Eniwa-shi, Hokkaido, Japan 061-1405 Tel: +81-123-39-3211 Fax: +81-123-32-0127 Operations commencement January 1999



Oyama Plant Location
 1260 Kayabashi, Oyama-shi, Tochigi Prefecture, Japan 323-0804 Tel: +81-285-49-2211 Fax: +81-285-49-1771

Operations commencement May 1980





Yodogawa Mill Location 4-1-186 Ohiraki, Fukushima-ku, Osaka, Japan 553-0007 Tel: +81-6-6465-5065 Fax: +81-6-6462-2806

Operations commencement January 1936

Amagasaki Mill

1-4-1 Minamishin-machi, Kuise,

Amagasaki-shi, Hyogo Prefecture, Japan 660-0822

Operations commencement

Tel: +81-6-6488-2561 Fax: +81-6-6489-1122

Location

April 1948



Asahikawa Plant Location 2-2-31 Kogyo Danchi 2-jo, Asahikawa-shi, Tel: +81-166-36-3622 Fax: +81-166-36-4280

Hokkaido, Japan 078-8272 Operations commencement April 1994

Aomori Plant Location 48-1 Shina, Hamadate, Aomori-shi, Aomori Prefecture Japan 030-0947 Tel: +81-17-742-2331 Fax: +81-17-743-5311 Operations commencement September 1970

Shin-Sendai Plant

Location 6-3-2 Matsusakadaira, Taiwa-cho, Kurokawa-gun, Miyagi Prefecture, Japan 981-3408 Tel: +81-22-344-0070 Fax: +81-22-344-0071 Operations commencement April 2012

Maebashi Plant

Location 1144 Amagawaoshima-machi, Maebashi-shi, Gunma Prefecture, Japan 379-2154 Tel: +81-27-263-1611 Fax: +81-27-263-1619 Operations commencement November 1961

1-7-1 Osaku, Sakura-shi, Chiba Prefecture,

Japan 285-0802 Tel: +81-43-498-2331 Fax: +81-43-498-1541

September 1985



Chiba Plant Location Operations commencement



Koza-gun, Kanagawa Prefecture, Japan 253-0106 Tel: +81-467-74-5112 Fax: +81-467-75-5600

Operations commencement October 1971





Single facer

●Paper roll ●Mill roll stand

Double face











Niigata Plant

Location

- 2885 Sasaki, Shibata-shi, Niigata Prefecture, Japan 957-0082 Tel: +81-254-27-3481 Fax: +81-254-27-3484
- Operations commencement April 1994

Nagano Plant

Location

- 1731 Hizumeoki, Inaba, Nagano-shi,
- Nagano Prefecture, Japan 380-0912 Tel: +81-26-221-2135 Fax: +81-26-221-0672 •Operations commencement

April 1964

- Matsumoto
 Sub-Plant

 ●Location
 5511-8 Wada, Matsumoto-shi, Nagano Prefecture, Japan 390-1242 Tel: +81-263-48-1211 Fax: +81-263-48-1215
 •Operations commencement
- October 2006

Shimizu Plant

Location

- 200 Shibukawa, Shimizu-ku, Shizuoka-shi, Shizuoka Prefecture, Japan 424-0053 Tel: +81-54-348-5100 Fax: +81-54-345-6454
- Operations commencement April 1957



- Location 1 Oike, Nakahara-cho, Toyohashi-shi, Aichi Prefecture, Japan 441-3106 Tel: +81-532-41-3151 Fax: +81-532-41-3129
- Operations commencement October 1972









Corrugated Plants



Shin-Nagoya Plant Location 1514-82 Tonmei, Akechi-cho, Kasugai-shi,

Aichi Prefecture, Japan 480-0303 Tel: +81-568-93-1670 Fax: +81-568-93-1728 Operations commencement . January 2014



Location 18-1 Uryu-cho, Echizen-shi, Fukui Prefecture, Japan 915-0096 Tel: +81-778-24-1361 Fax: +81-778-24-1427 Operations com July 1980

Fukui Plant



Shiga Plant Location
 565 Tsuji, Ritto-shi, Shiga Prefecture, Japan 520-3042 Tel: +81-77-552-2331 Fax: +81-77-552-2344 Operations commencement . May 1964



Shin-Kyoto Division Location 1 Hattanda, Shoryuji, Nagaokakyo-shi, Kyoto Prefecture, Japan 617-0836 Tel: +81-75-954-2121 Fax: +81-75-955-5652 Operations commencement September 1975



Sanda Plant Location 19-1 Techno Park, Sanda-shi. Hyogo Prefecture, Japan 669-1339 Tel: +81-79-568-5111 Fax: +81-79-568-5564

 Operations commencement . April 1993



Location April 1984

1-1 Yokoirikawa, Kohama, Hamakata, Hofu-shi, Yamaguchi Prefecture, Japan 747-0833

Wakayama Plant Location
 1758-3 Tsukatsuki, Momoyama-cho, Kinokawa-shi, Wakayama Prefecture, Tel: +81-736-66-2811 Fax: +81-736-66-9909

Operations commencement October 1993

Japan 649-6112

Okayama Plant Location 900 Kuboki, Soja-shi, Okayama Prefecture, Japan 719-1112 Tel: +81-866-92-2331 Fax: +81-866-92-1228 Operations commencement

Hiroshima Plant Location

July 1968

1-77 Minamimyojin-machi, Kaita-cho, Aki-gun, Hiroshima Prefecture, Japan 736-0055 Tel: +81-82-822-3121 Fax: +81-82-823-4922 Operations commencement . December 1961

Matsuyama Plant Location

1861 Minamivoshida-machi, Matsuvama-shi, Ehime Prefecture, Japan 791-8042 Tel: +81-89-972-0511 Fax: +81-89-972-1478

 Operations commencement October 1959

Hofu Plant

Tel: +81-835-38-0655 Fax: +81-835-38-0658 Operations commencement



Tosu Plant Location

950-1 Todoroki-machi, Tosu-shi, Saga Prefecture, Japan 841-0061 Tel: +81-942-83-3155 Fax: +81-942-83-2577

Operations commencement April 1962

4-2-15 Kosuge, Katsushika-ku, Tokyo,

. Tel: +81-3-3601-2111 Fax: +81-3-3601-7208



Folding Carton Plants



Operations commencement April 1970

Katsushika Plant

Japan 124-0001

Location

Tonegawa Division Location 5269 Iwai, Bando-shi, Ibaraki Prefecture, Japan 306-0631 Tel: +81-297-35-2307 Fax: +81-297-35-2600

Operations commencement April 1999



Shin-Kyoto Division

Location 1 Hattanda, Shoryuji, Nagaokakyo-shi, Kyoto Prefecture, Japan 617-0836 Tel: +81-75-954-2121 Fax: +81-75-955-5652 Operations commencement . April 2008

Converting Process Flexo folder gluer **Die cutter** Printer Slotter unit Platen unit (cutting) Delivery unit ᡛ₽ Stacker Slotter unit Die-cutter unit Slotter unit Printing unit Folding unit Squaring unit Printing unit •Gluing unit Counter unit TE Feeder unit Stripping unit



Cellophane Plant



Takefu Plant

Location 39-1-2 Kamimakara-cho, Echizen-shi, Fukui Prefecture, Japan 915-0011 Tel: +81-778-27-1111 Fax: +81-778-27-1114

 Operations commencement March 1934

Rengo acquires FSC® certification for its products from paperboard to corrugated packaging and folding cartons.



The mark of sponsible forestry

Rengo's corrugated packaging and folding cartons have been recognized for their contribution to the conservation of sustainable forest resources. The Forest Stewardship Council® (FSC) certification can now be applied to almost all corrugated packaging and folding cartons that use the paperboard produced at Rengo mills.



Printing unit



Folding unit

Comprehensive Capabilities Supported by Locally-oriented Group Enterprises in Japan Rengo Group Companies in Japan

Kyowa Shigy

Tohoku Shiki

Asahi Danho

Touhoku Carton

Efficiently divided work responsibility between directly managed plants and group companies is essential to the strength of the Rengo Group in terms of integrated manufacturing ranging from paperboard to corrugated packaging. At the same time, cooperation within the group is also crucial to the effective development of non-corrugated businesses such as folding cartons, flexible packaging and heavy duty packaging. An extensive network of locally-oriented group enterprises in Japan, each having its own technology and expertise, is what supports the comprehensive capabilities of the Rengo Group.

* The different business areas of each group Paper / Paperboard oshikawa Shiqyo enterprise are distinguished by color. Corrugated packaging * Only the head offices of each group Folding cartons enterprise are named. Flexible packaging Kowa Sanov Hokuriku Shil Heavy duty packaging Ishikawa Seisi Other Kato Da Edoga Acabi Shil Kyoei Danboru Danboru Kogyo Howa Sangyo naru Itagami Kako Kofu Dajichi- litur Yamada Kikai Koovo Nichidan Settsu Cartor ViLLife K.K RE Omot Tokai Shiki iyo Shigyo Nitto Shiki Koo Rengo Engei Shizai Center Sanvo Jido

Paper / Paperboard Marusan Paper Mfg. Co., Ltd. Location Minamisoma-shi, Fukushima Prefecture Tel: +81-244-22-3111 Fax: +81-244-22-0650 Main products Containerboard, special paper **Corrugated Packaging / Folding Cartons** 1.W Yamato Shiki Co., Ltd. Location Ibaraki-shi, Osaka Prefecture Tel: +81-72-624-1101 Fax: +81-72-621-0954 Main products Corrugated packaging, fiber containers Settsu Carton Co., Ltd. Location Itami-shi Hyogo Prefecure Tel: +81-72-784-6001 Fax: +81-72-784-6688 Main products Corrugated packaging Asahi Danboru Co, Ltd. Asahi Shiko Co., Ltd. Awaji Shiko Co., Ltd. Daimaru Itagami Kako Co., Ltd. Edogawa Danboru Co. Ltd Engei Shizai Center Co., Ltd Fuji-Hoso Shiki Co., Ltd. Hakata Danboru Co., Ltd. Hirooka Shiki Co., Ltd. Hokkoku Hoso Kizai Co I td Hokuriku Shiki Corporation

Ihara Shiki Co., Ltd. Kato Danboru Co., Ltd. Kendan Co., Ltd. Kofu Daiichi-Jituqvo Co., Ltd Kowa Sangyo Co., Ltd. Kyoei Danboru Co., Ltd. Kyowa Shigyo Co., Ltd. Kyushu Carton Co., Ltd. Matai Shiko Co I td



Flexible Packaging

Howa Sangyo Co., Ltd. Location Funabashi-shi, Chiba Prefecture Tel: +81-47-456-5011 Fax: +81-47-456-5080

Main products Flexible packaging made from plastic films and paper, etc.

Sun•Tox Co., Ltd.

 Main products Heavy duty corrugated packaging

Other

Rengo Logistics Co., Ltd.

Location Nishiyodogawa-ku, Osaka Tel: +81-50-3381-0150 Fax: +81-6-6473-0447

Main services General truck transport, warehousing, insurance, real estate

Bioteck Co., Ltd. Green Omoto Co., Ltd. Green Recycle Co., Ltd. Ishikawa Seisakusho, Ltd. RE Omoto Co., Ltd.

 Main products Nonwovens

WiLLife K.K.

The General Packaging Industry RENGO Rengo Group Companies in Japan





Osaka Paper Co., Ltd.

 Location Nishiyodogawa-ku, Osaka Tel: +81-6-6472-6331 Fax: +81-6-6474-6431 Main products

Boxboard

Tokai Shiki Co., Ltd. Location

Nagoya-shi, Aichi Prefecture Tel: +81-52-691-3121 Fax: +81-52-692-7521 Main products Corrugated packaging Hinode Shiki Kogyo Co., Ltd. Location Hioki-shi, Kagoshima Prefecture Tel: +81-99-273-9100 Fax: +81-99-273-9112 Main products Corrugated packaging, decorative folding cartons Miyazawa Corporation Nichidan Co., Ltd. Nitto Shiki Kogyo Co., Ltd. Otsu Seikan Co., Ltd. Rengo Riverwood Packaging Ltd Sakaiminato Gyokan Co. Ltd. Sakai Shoten Co., Ltd. Sanko Co., Ltd. Sankyo Danboru Co., Ltd. Shinwa Shiki Co I td Tachikawa Danboru Kogyo Co., Ltd. Taiyo Industry Co., Ltd. Taiyo Shigyo Co., Ltd. Tohoku Asahi Danboru Co., Ltd. Touhoku Carton Co., Ltd. Tohoku Kogyo Co., Ltd. Tohoku Shiki Co., Ltd. Toyotsu New Pack Co., Ltd. Yamatova Co., Ltd.



Heavy Duty Packaging

Nihon Matai Co., Ltd.

Yoshikawa Shigyo Co., Ltd.

 Location Taito-ku, Tokyo Tel: +81-3-3843-2111 Fax: +81-3-3843-1624 Main products

Highly functional resin products, containers including synthetic resin bags, heavy duty packaging

Tri-Wall Japan Co., Ltd.

•Location Minato-ku, Tokyo Tel: +81-3-6433-0755 Fax: +81-3-6433-0796

Rengo Nonwoven Products Co., Ltd.

 Location Soja-shi, Okayama Prefecture Tel: +81-866-93-9481 Fax: +81-866-93-9672

Rengo Paper Business Co., Ltd. Sanyo Jidosha Unso Co., Ltd. Yamada Kikai Kogyo Co., Ltd.

Contributions to Development in Asia by Group Enterprises Overseas Rengo Group Companies Overseas

As our customers' production locations are expanding throughout Asia, requirements are also expanding for local availability of high quality corrugated materials. Rengo's response to these overseas requirements has been to expand our packaging solutions network overseas in a similar way to how we



Paperboard	Thai Containers Rayong Co
China	
Zhongshan Rengo Hung Hing Paper	Dyna Packs Co., Ltd.
Manufacturing Co., Ltd.	Orient Containers Co. Ltd.
	D-In Pack Co. 1td
Vietnam	
Vina Kraft Paper Co., Ltd.	Singanara
Corrugated packaging /	CG Rengo (S) Ltd.
Folding cartons	
China	
Dalian Rengo Packaging Co., Ltd.	Malaysia —
Dalian Guoli Packaging Co., Ltd.	Rengo Packaging Malays
Tianiin Rengo Packaging Co., Ltd.	
Oingdao Rengo Packaging Co., Ltd.	Indonesia
Wuxi Rengo Packaging Co., Ltd.	PT Surva Rengo Contain
Shanghai Rengo Packaging Co., Ltd.	
Guangdong Rengo Packaging Co., Ltd.	
Hung Hing Printing Group Limited	
	Head Office/ Jakarta Fac
	Karawang Factory
	Surabaya Factory
Hong Kong Head Office	Semarang Factory
Shenzhen Manufacturing Facility	PT Indoris Printingdo
Heshan Manufacturing Facility	PT Primacorr Mandiri
Wuxi Manufacturing Facility	
Zhongshan Manufacturing Facility	
	Vietnam
	Settsu Carton Vietnam C
Thailand	New Asia Industries Co.,
Thai Containers Group Co., Ltd.	Alcamax Packaging (Viet
0	AP Packaging (Hanoi) Co
week I was	
A AND MARKED	U.S.
	Rengo Packaging, Inc.
Navanakorn Plant	Flexible packaging
Samutprakarn Plant	China
Ratchaburi Plant	🗖 Jiangsu Zhongjin Matai 🛛
Prachinburi Plant	Packaging Co., Ltd.
	Sichuan Zhongjin Medici
Patumthani Plant	Co., Ltd.
Songkhia Plant	
Saraburi Plant	1 224
Kamphaengphet Plant	and the second second second
	A CONTRACTOR OF THE OWNER OWNER OF THE OWNER OWNE

The General Packaging Industry RENGO Rengo Group Companies Overseas

ong Co., Ltd. Thailand nkaen Co., Ltd. TC Flexible Packaging Co., Ltd. o., Ltd. Prepack Thailand Co., Ltd. Head Office / Sinsakhon Factory Samutsongkram Factory Vietnam Tin Thanh Packing Joint Stock Company (BATICO) Heavy duty packaging China /lalaysia Sdn. Bhd. Tri-Wall Limited Tri-Wall Packaging (Jiangsu) Co., Ltd. Tri-Wall Packaging (Fuzhou) Co., Ltd. Shanghai Shengyuan Packaging Co., Ltd. ntainers Thailand Tri-Wall Packaging (Thai) Ltd. Thai Marsol Co., Ltd. Prepack Thailand Co., Ltd. **Rayong Factory** ta Factory Indonesia PT Marsol Abadi Indonesia PT Taiyo Marsol Indonesia Vietnam Matai (Vietnam) Co., Ltd. U.K. nam Corporation Tri-Wall Europe Limited s Co., Ltd. (Vietnam) Co., Ltd. noi) Co., Ltd. Other China Rengo Co., Ltd. Shanghai Packaging Technical Center Howa (Shanghai) Co., Ltd. Shanghai Matai Trading Co., Ltd.; Lianyungang Benyi Chemicals Co., Ltd. Dalian Marsol Trading Co., Ltd.; Yantai Marsol Co., Ltd. latai Medicinal Taipei Howa Taiwan Co., Ltd. Medicinal Packaging Thailand Pal Tech (ASIA) Co., Ltd. Yamoto-Shiki (Thailand) Co., Ltd.

A Diverse Product Lineup to Meet Every Packaging Need

Corrugated materials are an important part of daily life, given their ability to safely protect and attractively present the products they contain, as well as their intrinsic functionality and suitability for recycling. Rengo, always a leader in the history of corrugated packaging in Japan, has created an integrated manufacturing system for a range of materials from paperboard to corrugated packaging. This system has enabled us to develop our business according to our customers' requirements, as well as facilitated a wide-ranging lineup of products. All of the products we handle, starting with corrugated materials and extending to paperboard, folding cartons, flexible packaging, heavy duty packaging, packaging machinery and functional materials, represent Rengo solutions to customer requirements. Within them can be found a broad spectrum of knowledge and technology based on nearly a century of experience.



From containerboard to boxboard, tube board, chipboard, and processed paper **Paperboard**

In order to supply user-oriented products, we are expanding our business toward the area of paper manufacturing. As a manufacturer of top-class paperboard, we are engaged in the production and sale of a wide range of products covering everything from containerboard such as linerboard and corrugating medium, to boxboard and tube board, chipboard, and processed paper.

1 - 10 - 5000





Processed paper

From water-resistant, freshness retaining, and antirust materials to decorative printing

Corrugated Packaging

In addition to our general-purpose corrugated packaging, which retains freshness and excels at water and rust resistance, we also offer corrugated packaging for a wide range of special uses, from functional corrugated packaging to decorative printing to enhance sales of the customer's product.

All of our corrugated packaging is recyclable.

Functional Corrugated Packaging

Water-resistant and moisture-proof corrugated packaging •RENCOAT (low to medium water resistance), HIGH RENCOAT (high water resistance), and ULTRA RENCOAT

(super water resistance and high moisture prevention) Water-resistant and moisture-proof corrugated packaging that combines a high level of resistance to water, comparable to wax dipped corrugated packaging, and a high level of recyclability.

Cold storage box

RECYCOOL (cold storage / freshness retention)

Corrugated packaging with a specially coated bottom liner for cool insulation, ideal for the refrigerated transport of items such as fruit and vegetables, processed marine and meat products, and alcoholic beverages.



●HIGH NEW RENCOAT

Fire-retardant corrugated board RAFEP

flames do not spread.



Antirust corrugated packaging GASTORD, SAVINDE Corrugated packaging with

Corrugated board that cannot special coating to prevent rust be easily ignited, and ensures on metallic surfaces. Ideal for inhibiting rust formation on electronic components, silverware, and other metallic items.



AS Black

evaporation.

Damp-proof

packaging

AS Black

Conductive corrugated

Greenpack (freshness retention)

ensure that fruit and vegetables remain fresh.

COSREN (low friction corrugated packaging)

paper labels caused by vibration during transportation.



COSBEN

This conductive corrugated A special mixture of ink and

packaging is ideal for protecting varnish coating on corrugated

electronic components from boards repels insects, discour-

packaging

BUGLESS

Insect-resistant corrugated

Moisture-proof corrugated packaging and freshness

Damp-proof (moisture prevention / freshness retention)

Specially coated linerboard ideal for packaging of fruit and vegetables, as it suppresses both "product breathing" and

Ethylene elimination and gas composition control help to

Corrugated packaging with reduced frictional resistance of

surfaces that reduces film wrap pinholes and the rubbing of

retaining agent to maintain the freshness of vegetables





Decorative Corrugated Packaging

CORFLEX

UNIMARKY



RECO Pallets

● CORFLEX

Various Types of Packaging

High Value Package

High Dispo

Corrugated cushioning materials





The High Value Package is a corrugated outer packaging for a new era that creates high value at every stage, from packaging all the way to storage, transportation, and retail spaces. Made by using dedicated machinery to apply blank sheet to a special form known as a mandrel, the resulting increase in corner surfaces not only has advantages in sales promotion, it also has superior environmental performance and realizes cost







Packaging with a new concept, developed from a retailer's point of view

Until now, conventional corrugated packaging has been designed with a focus on "protecting" and "transporting" their contents. The Retail Mate series is a corrugated packaging series with a new concept developed from a retailer's point of view that addresses issues in retail outlets. pursuing ease of opening, display performance, and sales promotion. As well as achieving increased efficiency in backyard operations and in-store sales promotion through stand-out displays, this series also plays a big role in improving efficiency of product sorting in warehouses. A range of packaging options are available to suit different products' specifications, characteristics, and sales approaches.



Rengo Smart Display Packaging (RSDP)



Delta Flute, an original Rengo product, is a brand new corrugated board that has never existed. Based on the concept of "Less is more," this new GPI Rengo innovation in corrugated board creates great value with few resources, reduces impact on the environment and is both more lightweight and more functional.

- Features 1 Offers greater transportation and storage efficiency than B-flute, accomplishing the further optimization and streamlining of packaging.
 - 2 CO₂ emissions are reduced and impact on the environment is mitigated through further reduction of corrugated board weight.
 - 3 Delta Flute has greater flat crush strength than B-flute. It makes printing possible that is sharper and more beautiful
- DELTA Because Delta Flute is stronger than E-flute, it can FLUTE be used as outer corrugated packaging with the functions of inner boxes









The General Packaging Industry RENGO Main Products



Slip Guards Sheet Pallets



RECO Pallets



Zigzag cut cushior

Compact design side/back cushion

Corrugated packaging for fruit and vegetables



Suspended trays - to protect strawberries from impa



● RakuPPa! - easy-to-assemble travs

Bolster sales promotion Folding Cartons

We provide a wide array of folding cartons which enhance marketing efforts by presenting products such as confectionaries, foods, beverages, and sundries in an attractive way. Our service covers everything from planning and designing to manufacturing.

•General-purpose cartons and gift packaging We offer general-purpose cartons for individual and inner boxes, as well as gift packaging.

•POP displays Eye-catching POP displays that are tailored to the sales location and highlight the product's special characteristics assist sales promotions at stores.

•Multi-packs Used to package together multiple units of a product, such as cans or glass bottles. In addition to being ideal for sales of multiple product units packed together, multi-packs are easy to handle and offer display benefits through attractive printing. CAP-IT is the new face of PET bottle multipacks.



Multi-nacks



Beautifully wrapped; superior protection Flexible Packaging

We offer a lineup of flexible packaging, including film wraps, cellophane, and molded packaging, which covers items attractively and offers outstanding protection.

•Film wraps and labels Centered around Howa Sangyo Co., Ltd., we offer various types of flexible packaging and a wide range of labels and stretch film perfect for PET and glass bottles.

•Cellophane An old standard, this transparent wrapping is a cellulose film manufactured from wood pulp. Cellophane is readily biodegradable and is friendly to the environment, emitting no noxious gases even when burned. It remains an ideal wrapping for food items and pharmaceuticals.

Molded packaging Can be used for individual compartments for trays, cups, and gift sets; available in a variety of different materials.

•Cleantainer bag-in-box Strong, protective "bag-in-box" containers consist of an inner plastic bag with a corrugated outer box. Select from various materials and configurations to suit the contents and usage conditions. We offer a full package processing system, including filling machines.



Film wraps

Cleantainer

Packaging line has become automated and energy efficient **Packaging Machinery**

In addition to packaging, Rengo offers systems that make the packaging line more efficient.

Packaging systems Casers Case/tray erectors

Sealing machines Ink-iet printers Packing machines



Any height you wish. A revolution in mail-order packaging. ●Gemini Packaging System ●I-Pack system e-Cube system Ultipack system

Supporting wide array of industries **Heavy Duty Packaging**

With a diverse product lineup, we answer all needs in areas from agriculture to food products and industrial raw materials.

•Flexible bulk containers Our highly functional, high quality, clean flexible bulk containers are produced by Nihon Matai, a Rengo Group company with the largest market share in Japan for flexible bulk containers. With manufacturing technology accumulated over many years and complete quality control system, Nihon Matai produces a diverse range of flexible bulk containers in Japan and other Asian countries. We offer order-made ideal products to meet the customer requirements both in Japan and abroad.

Heavy duty polyethylene bags Our heavy duty polyethylene bags, suitable for a wide variety of applications, from fertilizers to chemical products, gardening products, and foodstuffs, are made by Nihon Matai, a pioneer of polyethylene bags in Japan with the largest market share in the industry. Consistently seeking to expand into new fields, we are the first in the industry to have developed gusseted heavy duty polyethylene bags for synthetic resins, and meet the full range of customer requirements.





Making life more comfortable **Functional Materials**

As exemplified by the development of cellulose, Rengo constantly works to develop new functional materials utilizing the manufacturing know-how we have built up over many years. By combining packaging types, we are not only achieving higher functionality but are also contributing to making life a little easier.

mold.

• Viscopearl (porous cellulose beads) These cellulose beads, manufactured from wood pulp, offer excellent porosity and can provide gradual-release action for medicines and other such products. Used for enclosing other functional materials such as aromatic agents and activated carbon.

•Cellgaia A tightly integrated mixture of two natural substances: biodegradable cellulose fibers and the mineral zeolite. The material has outstanding properties in terms of absorbing gas, preventing mold, and absorbing/retaining water, and it is used with non-woven fabric in various types of filters and diapers, etc.

•Viscose-processed Paper (SAFLON) Processed paper coated with viscose obtainable from high-grade cellulose pulp such as paper and nonwovens. Offers controlled air permeability, excellent resistance to hot water, and remains strong even when damp, making it ideal for packaging such items as insecticides, medicines, and foodstuffs.



Viscopear

Viscose-processed Paper (SAFLON) • Wasaveil

24



•Kraft paper bags The multi-ply kraft paper bag (1-ply to 4-ply) is a packaging material ideal for product transportation and storage. Nihon Matai's large kraft paper bags, developed with unique technology accumulated over many years, have earned the trust of customers across many industries for their high quality and added value. By pursuing quality control measures such as insect control and foreign material prevention, we ensure the manufacture of hygienically reliable products.

• Tri-Wall Pak, Bi-Wall Pak Heavy duty corrugated packaging refers to triple or double wall corrugated board made from high-strength containerboard. It is used for packaging of products including automobile components, aircraft components, electrical machinery, mechanical equipment, electrical components, and glass products.

• Wasaveil and WaSAAce (natural anti-bacterial/anti-mold agents) Employing wasabi and mustard constituents, these products are used as anti-bacterial and anti-mold agents. When processed into a film, in addition to prolonging the shelf life of foods, they can be placed in shoes and bags to prevent

•Water-absorbent mats and sheets These "spunbond" materials, produced by thermally binding fibers using heat rollers or hot air, are used as surface materials for sanitary-related products, primarily diapers, as well as in other materials to retain freshness by absorbing the water or dew from fruit and vegetables, fish, and the like.

•Tinted film Sunlight-inhibiting film used for automobiles and building windows. Available in dark tint, light tint, and a variety that blocks ultraviolet light.



Offering Solutions to Packaging Issues through a 3-pronged Support Framework

Packaging serves multilateral functions. It must protect products, present them attractively, convey information, and not have an adverse impact on people or the environment. Packaging is constantly evolving as a medium that links our customers to the end user. Rengo helps provide solutions to all manner of packaging-related issues from three perspectives: packaging technology, design marketing, and research and development. The wealth of packaging technology we have accumulated forms the base of our "total solutions" to our customers for every scenario in the creation of a product, from product development, packaging and distribution to store sales promotions.



Support 1 Packaging Technology Support **Packaging Technical Department**

Packaging sales specialists collaborate with the Packaging Technical Department in providing support on packaging technology issues

For a customer's product to arrive safely in the hands of consumers, the right packaging needs to be selected in terms of type, dimensions and material in accordance with product characteristics and distribution conditions such as transportation and storage. Rengo offers in-depth support on packaging technology issues through close coordination between sales personnel, who also hold professional packaging qualifications, and our nationwide network of

packaging engineers with the Packaging Technical Department as its hub. It is our job to submit proposals for safe packaging and we also suggest optimal designs that take into account the ability to recycle, ease-of-use, transportation efficiency and cost performance. Additionally, we implement material and package tests. We are also engaged in the development of new packaging technologies and impart timely information on packaging and distribution.



Packaging Technical Center

Support organization Support provided Design and improvement proposals for transport packaging Design and trial production using CAD/CAM Simulation of distribution, including different pallet loading patterns Packaging Technical Material and package tests Department Material tests and evaluation for paperboard, corrugated packaging • Package tests (drop, compression and vibration tests, etc.) Packaging-related technological development • Types, techniques and systems, etc. **Provision of information on** packaging technology





Features of packaging design

The Packaging Technical Department develops optimal specifications for the customer through a combination of "dimension design," used to determine the best dimensions to match the contents and the shape of the box, "strength design," for determining appropriate material properties for the specific distribution conditions, and "package testing," for checking for faults in the designed packaging.



Facilities for verifying packaging safety and functionality

The department uses controlled atmosphere rooms for recreating temperature and moisture conditions during the distribution process, as well as vibration testing machines and other facilities to scientifically analyze the safety and functionality of packaging.



Proposals for new corrugated cushioning materials

A wealth of know-how relating to corrugated packaging design that has been developed over the years is tapped in order to come up with new cushioning products made from corrugated board as opposed to polystyrene.

Support 2 **Design and Marketing Support Design and Marketing Center**



To create "top-selling" products, the Design and Marketing Center provides support ranging from product planning, package design to store sales promotions

Rengo's Design and Marketing Center (DMC) is a team specializing in the consultation and the proposal of designs as a partner of customers. It provides real time marketing-based consulting and proposals in a wide variety of areas. While they of course handle topics such as product planning and packaging design, they also look beyond outer packaging, such as corrugated boxes and

inner boxes, as simply a medium for transportation, and embrace it for its value in in-store promotions. Through packaging, the DMC makes proposals that cover everything from customers' product development to sales promotions in order to explore and realize the latent possibilities for better selling products.



Provision of detailed marketing information

Consumption trend forecasts and analyses, consumer demand and acceptability surveys, and studies on package display in stores are examples of the marketing information provided, and on which premises for top-selling products are based.



• Tiotamin-D2, a design that won the Bronze Award in the Pentawards 2016

Planning products that lead directly to sales

The Design and Marketing Center utilizes the survey findings in the formulation of product proposals that will capture the interest of consumers. Plans cover user settings, naming, packaging design, store displays as well as brand strategy for ongoing development of the products



Design and Marketing Center



Support 3 **Research and Development Support Central Laboratory**

As a pioneer in corrugated packaging, Rengo creates new products through research and development of raw materials and manufacturing methods

Rengo was the first company in Japan to become involved in the corrugated business and has been successful in making one innovative product after another. The driving force behind this is Rengo's research and development structure led by the Central Laboratory. The Central Laboratory carries out research and development in a broad range of fields that deal with Rengo's main products. The research covers an extremely varied field from the realization of a wide range of packaging functions, such as water resistance,

moisture prevention and freshness retention, to the development of environmentally friendly products and new functional materials such as Cellgaia. The laboratory also undertakes development of energy-saving and resource-efficient manufacturing methods and waste recycling technology, as well as research involving chemical analysis relating to product safety and guality and environmental analysis aimed at protecting the environment.



Central Laboratory





Central Laboratory's Cellgaia functional material



Cellaaia The adhesion rate of zeolite has been dramatically enhanced compared to earlier methods

Products that use Cellgaia



 GasQ gas adsorption sheets for cultural property protection



• Full Guard Cloth Pro antibacterial cloth with no odo



 Gaiaphoton, a phosphor that does not contain any rare earth elemen

Major products developed by the Central Laboratory Recyclable corrugated packaging **ULTRA RENCOAT** Water-resistant corrugated packaging Damp-proof Moisture-proof corrugated packaging COSREN Low friction corrugated packaging SAVINDE RECYCOOL Molded corrugated products FLUTEPRESS 100% paper molded product made by thermoforming corrugated board

Cellulose beads Viscopearl High-function fiber Cellgaia

Corrugated packaging with antirust protection Corrugated packaging for chill and freshness retention

Porous cellulose beads

Highly functional fiber combining zeolite with cellulose fiber

Less Weight, Less Carbon

Our key phrase in environmental initiatives focused on the future of people and the planet

Having cultivated an entire business around corrugated packaging, which is considered a "role model" for recycling, Rengo maintains a corporate culture of looking after the earth's resources. We clarified that stance in 1999 by establishing the Environmental Charter and setting up the Environment Committee. The CSR Committee was formed in 2005, putting in place a framework for collective efforts to fulfill our social responsibility beyond just the sphere of environmental protection. ISO 14001 certification, the international standard for environmental management, has already been acquired by all plants. Rengo believes an environmentally considerate style of management is essential for sustainable growth, and intends to achieve this through ongoing, companywide initiatives, performed under the key phrase "Less Weight, Less Carbon," that include promoting utilization of recovered paper, installing energy-efficient facilities, converting to fuels that emit low levels of CO₂, and recycling waste

Promotion of CSR Management

Rengo has set up five subcommittees within the CSR Committee through which to promote CSR management. Seeking to fulfill our responsibility to society as a good corporate citizen, the subcommittees will pursue activities targeting all the various stakeholders, including shareholders, customers and suppliers. local communities. and employees.



Eco-friendly Production Systems—Less Weight, Less Carbon

27% reduction in CO₂ emissions

Rengo is actively introducing energy-efficient facilities and adopting less harmful, clean energy sources, as part of its efforts to reduce CO₂ emissions, which have a significant impact on the global environment. In addition to the installation of gas engines that are highly energy efficient, as well as biomass boilers fueled by manufacturing waste, Rengo is also actively converting other boilers from fuel oil to liquefied natural gas (LNG) or processed natural gas, which have a lower CO2 conversion coefficient than fuel oil. Furthermore, with the adoption of a large-scale photovoltaic power generation system at one of its plants, a first in the corrugated industry in Japan, and other initiatives, Rengo is most likely to achieve a 27% reduction in CO₂ emissions for 2015 compared to 1990 levels. Going forward, Rengo has set group-wide CO2 emission reduction goals of 32% by 2020 and 50% by 2050.

Waste reduction

Trimming waste, the most common type of waste generated by corrugated plants, is recycled back into containerboard at Rengo's paper mills. This contributed to Rengo's 98.3% recovered paper utilization ratio in 2015. Ragger rope shredding and sorting machines have also been installed. These enable ragger rope to be broken up and separated into iron and plastic scrap, whereas it used to be disposed of as waste in the past.

Prevention of air and water pollution

Water is a vital resource used in the production of paperboard. We have long been looking into ways to utilize water effectively at our paper mills, where water is currently used for ten cycles on average. Water that has been used repetitively like this is then returned to a state below maximum regulation levels before being released into river systems. Air pollution prevention measures include converting to clean energy sources as well as working to reduce levels of SOx and NOx through the installation of flue gas desulfurization and denitration systems.

Eco-friendly Packages—Less Weight, Less Carbon

Environmentally-friendly C-flute and Delta Flute

The flute height of C-flute and *Delta Flute* is about 1 mm thinner than conventional corrugated boards. The corrugated board is thinner and therefore improves load efficiency and saves on storage space. Along with the synergetic effects of lightweight Less Caliper & Carbon (LCC) containerboard, it greatly reduces CO₂ emissions. Rengo is working on research, development and design of eco-friendly products based on a policy of "Reduce, Reuse, Recycle."





The General Packaging Industry RENGO Environmental Protection/CSR



Corrugated Recycles symbol

The Corrugated Recycles symbol is a mark used worldwide as designated by the International Corrugated Case Association. The Rengo Group is actively involved in promotion and education relating to the symbol and has proposed that recyclable products should display the symbol in order to encourage the proper reveling of used corrugated boxes. As a result of these efforts, domestic recovery rate of corrugated packaging has reached 97.2%* as of 2015.

*Corrugated Packaging Recycling Council





hotovoltaic power generation syste







Rengo's social contribution activities Support to the **Antarctica Expedition**

Rengo has been supporting scientific research by the Antarctica Expedition since its inauguration, providing corrugated boxes for packing materials and goods.

Support for the Orchestra **Ensemble Kanazawa**

Orchestra Ensemble Kanazawa is constantly breathing new life into Japan's classical music circles as an orchestra of international standing. Rengo offers ongoing support, for example by lending a Stradivarius violin to the orchestra and sponsoring concerts.

Tonegawa Summer Evening Festival

The Tonegawa Division invites members of the local community to its annual Summer Evening Festival. Nearly 3.000 people turn up each year to take part.

Rengo and Corrugated Board—A Shared History

Teijiro Inoue, founder of Rengo, shaped the history of corrugated board in Japan

The history of Rengo can be said to be synonymous with the history of the development of corrugated board in Japan.

In 1909, Teijiro Inoue, the founder of Rengo, established Sanseisha (predecessor of Rengo), marking the beginning of commercial production of corrugated board in Japan. The origin of the corrugated board business can be traced back to the moment when Inoue, after a long and difficult effort, completed a "layered (dan) corrugated cardboard (boru-gami)" product that he called "danboru." He thought that the name sounded good and was easy to remember.

The advantages of corrugated board are that it is light, sturdy, and inexpensive, and can be massproduced and printed upon. On top of this, it can be folded up and recycled. Demand for corrugated board instantly grew, replacing wooden boxes and other containers, which had been the mainstream for packaging materials used in distribution.

In 1920, Inoue established Rengo Shiki K.K. to begin full-scale production. The name meant a company that produced packaging containers by employing sheets of paper layered on top of one another. In 1923 when the Great Kanto Earthquake struck the Tokyo area, the company overcame the disaster and established an integrated production system covering the production of containerboard, corrugated board and boxes. Indeed, it could be said that this laid the foundation for the development of the corrugated board industry in Japan.

Later, Rengo Shiki began to

construct a modern large plant capable of producing all products-from containerboard to corrugated boxesin a streamlined, integrated manner, and completed the Yodogawa Mill, then the largest in Asia, in 1936. Meanwhile, from the end of the Taisho period (1912-26) to the beginning of the Showa period (1926-89), the company continually developed and introduced new technologies for production equipment and systems and created corrugated packaging solutions to pack light bulbs, canned foods, bottled beer,

ceramics. clothes. and other products. As a result of these steady efforts, Rengo Shiki's network of operations sites extended to other East Asian countries, paving the way for today's Rengo Group, which leads the industry as the largest manufacturer.

Promoting the expansion and modernization of equipment in line with growing postwar demand for corrugated box

After World War II, Rengo Shiki strove to establish a nationwide supply network centered on the Yodogawa Plant, which had suffered relatively slight damage. The company also pushed forward with aggressive business development, including the consolidation of major plants, the opening of local sales





First corrugated board manufacturing machine (replica)



Yodogawa Plant when completed in 1936

offices, plants and branches, and the establishment of affiliated companies. The company built up a firm position in the industry by meeting growing demand for corrugated packaging as Japan's exports rose. At the time, Rengo Shiki produced almost all corrugated boxes for marine products, particularly frozen fish, and its corrugated boxes were used for a wider range of products that included ceramics, canned foods, and fruit.

Amidst the rapid growth in postwar demand for corrugated boxes, the company imported and introduced a cutting-edge corrugated board manufacturing machine, called the "corrugator," into its Tokyo Plant I in 1953, ahead of other industry players. In this way, Rengo Shiki led the way in expanding and modernizing production equipment, while in subsequent years constantly leading the industry in developing corrugated board production technologies, including high-speed corrugators.

In 1961, the company opened the large Tonegawa Mill to increase the production of containerboard to be used at its own corrugated plants. The paper mill, equipped with the latest paper machine and other necessary doubled in-house equipment. containerboard production, and



combined with the establishment of new corrugated plants nationwide it further upgraded the company's integrated production system.

Establishing its position as a comprehensive packaging company by meeting diversifying packaging needs In 1970, Rengo Shiki, not satisfied

with the modernization of production equipment alone, proposed the "total packaging system," which laid the foundation for today's Rengo as a comprehensive packaging company. The aim was to provide the optimal packaging systems by participating in customers' product planning from the choice of packaging materials and design to the delivery methods.

In 1972, the company changed its name from Rengo in Chinese characters to Rengo in katakana to create a more approachable and likeable image. This name change indicated the company's intention of expanding into new fields, with corrugated packaging as its core business, in order to establish itself as a comprehensive packaging company.

As needs for decorative packaging grew along with the maturing of the

"Kintoma": Management philosophy of the founder Teijiro Inoue

philosophy, called "Kintoma,

"kin." which indicates "money" and "iron will." and "ma," which means "sincerity" and "timing." "to" is a conjunction that connects "kin" and "ma."

In short, "Kintoma," coined by Teijiro, indicates an invariable principle of business. In line with this principle, he tells businesspeople that once they have acquired "iron will," "money." "sincerity" and "timing" they should hold onto these qualities for life. He emphasizes that they should grasp business opportunities in a timely manner and value personnel, equipment, capital, and sincerity when managing their business. A modern translation of "Kintoma" would be that "businesspeople, having money and a strong will, must engage in the management of their business with sincerity while placing an emphasis on personnel, time, and equipment." Since the foundation of Rengo, the "Kintoma" philosophy has been handed down from generation to generation as a guiding principle and code of conduct.

consumer society, Rengo developed high-precision printing technologies, such as pre-printed CORFLEX corrugated boxes that are made using printed paperboard. Along with the innovative advancement of corrugated production technologies, board specifically the achievement of continuous corrugator operation, these printing technologies opened up a new world for corrugated board and other packaging materials.



Corrugator at the Tokyo Plant I



Advertising in an apple producing region

Teijiro Inoue created corrugated board after a great deal of effort as well as trial and error. He is the person who came up with the name "danboru" for corrugated board, which is now a household term. After experiencing many difficulties, he developed his own management

Written in hiragana, the term "Kintoma" consists of: The Chinese character meaning "ma" can be combined with other Chinese characters to create other words that variously mean "time," "space" or "human being."



Expanding production systems for packaging in a new age

In the 1980s, as Japan entered the full-fledged information age, Rengo led the industry in working to establish computerized systems. Rengo also branched out into peripheral areas to meet the increasingly diversified packaging needs of users. Some of the business areas related to corrugated packaging into which the company made inroads were folding cartons (including offset printing); nonwovens, which were in greater demand because of their use in disposable diapers; processed paper, such as printed paper and aluminum or film laminated paper; flexible packaging and multi-packs closer to consumer packaging; and packaging machinery.

Furthermore, with the economic growth of Southeast Asian countries and China, Rengo expanded into overseas markets earlier than anyone else in the paper and packaging industries. Starting in 1990 with the opening of a joint-venture corrugated plant in Malaysia, the company developed its business in Singapore, Thailand,

Lizz

Indonesia, China, Vietnam, and the United States, and now boasts an unrivaled network.

In line with the expansion of its business domains and the discovery of larger markets overseas, the company established the Central Laboratory and the Packaging Technical Center in 1990 to improve its research and development structure. At the same time, Rengo acquired Fukui Chemical Industry, a paperboard manufacturer in 1991, and relocated old plants, including the Osaka (currently located in Sanda) plant, installing the latest machinery at that time. In this way, Rengo steadily reorganized and upgraded its production structure.

Bolstering the integrated production system through acquisition of Settsu

In 1999, Rengo acquired Settsu Corporation, a major paperboard manufacturer. This helped Rengo establish itself as an integrated manufacturer of both paperboard and corrugated board in both name and substance.

In acquiring Settsu, the company consolidated the paper machines to establish a new production structure that suited the level of demand, spun off Settsu's corrugated business unit as Settsu Carton Corporation, and reorganized other group companies engaged in the corrugated business, leading an industry-wide structural reform.

These steps taken by Rengo greatly helped reform the industry in all three areas-recovered paper, paperboard, and corrugated packaging-and significantly improve its status.

"General Packaging Industry (GPI)" Rengo

In 2009, the year of Rengo's 100th anniversary, the Rengo Group added as a subsidiary Nihon Matai Co., Ltd, a heavy duty packaging and synthetic resin product manufacturer, and in 2013, added Marsol Holdings Co., Ltd. (merged with Nihon Matai), complementing its list of existing products-paperboard, corrugated packaging, folding cartons, and flexible packaging, with heavy duty packaging. This addition further enhanced Rengo's structure, making it capable of meeting all its customers' packaging needs.

The Rengo Group now defines itself as a "General Packaging Industry" that creates new value in packaging in a wider range of fields and actively proposes solutions to fulfill all the packaging needs of various industries through continual changes in thinking and innovation. With our eyes on further enhancement of our overseas operations in the light of advancing globalization of the economy and society, Rengo will, over the next 100 years, continually commit to being active and taking on new challenges, both in Japan and worldwide.



Corru-Air Duct, an air-conditioning duct made of corrugated board

No. 7 paper machine at Yashio Mill

Expansion of exports Completed construction of the Yodogawa Plant, which produced all products in "February 26 Incident" an integrated manner, from containerboard to corrugated board World War II Met a wider range of demand that included home appliances, canned foods, bottled beer, ceramics, and clothing Established new plants and subsidiaries in China, Taipei and Korea Formed a capital tie-up with Tokyo Electric (now Toshiba) Pacific War Six domestic plants were destroyed by fire during air raids, and overseas assets 1940 Promulgation of the were lost corrugated packaging Constitution of Japan Resumed production to meet consumer needs and developed new demand for Outbreak of the Cold War corrugated board used to package frozen whale meat and canned foods Production to meet military demand Obtained a listing at stock exchange and increased capital to ¥10 million under wartime economic contro San Francisco Peace Corrugated packaging was increasingly used for mandarin oranges, apples, and 95 Treaty frozen fish "We are no longer in the Developed new corrugator and printing machine models postwar period." Modernized production equipment to meet growing demand Home electric appliance Opened Research Laboratory (later, Central Laboratory) boom "Ruten" boom as Teijiro Inoue's autobiography was adapted for TV and film Trade liberalization Built Tonegawa Mill, as well as new corrugated plants 960 Trade liberalization Built lonegawa Mill, as well as new consugated practice from the United States as the functions of corrugated Japan attains world's boxes diversified second largest GNP Developed GRAVIAN and other pre-printed corrugated boxes Technological innovations for production equipment advanced Japan World Exposition Rengo Sniki K.K. remained hengo Co., Lie. Plan for the remodeling of Developed CORFLEX five-color pre-printed corrugated box Japan World Exposition Rengo Shiki K.K. renamed Rengo Co., Ltd. the Japanese archipelago Installed No. 4 paper machine at Tonegawa Mill First Oil Crisis Developed continuous running technology for corrugator operation Second Oil Crisis Developed and commercialized "Fingerless Single Facer" Exported Rengo's technologies for producing paperboard and corrugated board Recession caused by Expanded business to cover nonwovens and other peripheral areas the strong ven Opened new office in Singapore for overseas expansion Prolonged economic boom Established new joint-venture corrugated packaging companies in Malaysia, Cold War ends with Singapore, and Thailand collapse of the Berlin Wall 1990 End of "bubble economy" Opened Packaging Technical Center Multiple recessions Multiple recessions Acquired Fukui Chemical Industry, an affiliated company Great Hanshin-Awaji Completed an integrated production management system using computers Earthquake Set up new containerboard and corrugated packaging joint venture companies in Creation of the euro China, Indonesia, and the Philippines currency Incorporated Howa Sangyo into the Rengo Group to enter the flexible packaging "Lost Decade" and zero business interest policy Acquired Settsu to reinforce the integrated paper and corrugated board production system "No-holds-barred Made Marusan Paper Mfg. Co., Ltd. a group affiliate structural reforms" Commenced reforms in the paperboard and corrugated board industries Terrorist attacks on the Introduced C-flute corrugated board United States Bolstered energy conservation equipment, including biomass incineration power plant Massive tsunami off Sumatra All paper mills and corrugated plants acquired ISO 14001 environmental management certification Beijing 2008 Olympics Installed a photovoltaic power generation system at the Kyoto Plant Steep rise in the prices of Shin-Kyoto Plant commenced integrated production of corrugated board/boxes and crude oil and other resources folding cartons after merger of the Kyoto and Katsura plants Global financial crisis Rengo's 100th anniversary

1909

1920

Rengo and

Global recession Made Nihon Matai Co., Ltd. a group affiliate World Expo 2010 New paper mill, a joint venture in Vietnam, begins full-scale operation 2010 Shanghai Completed construction of the Fukushima-Yabuki Plant that cuts CO2 emissions by 40%, Great East Japan Earthquake compared to its predecessor Abenomics Completed construction of the Shin-Sendai Plant in about a year after its predecessor, the

Sendai Plant, suffered extensive damage in the Great East Japan Earthquake Developed Delta Fulte, a new standard for corrugated board Made Marsol Holdings Co., Ltd. (merged with Nihon Matai) a group affiliate Completed construction of the Shin-Nagoya Plant-which features one of Japan's largest seismically isolated automated warehouses-in Kasugai-shi, Aichi Prefecture Completed PM8 for linerboard production at Marusan Paper Mfg. Made Tri-Wall Holdings Limited a group affiliate

ALIT

ALT

G/W 36×27×27=

N/W

G/W KE 56×39×29cm=0.06

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World War I Teijiro Inoue made up his mind to become an independent self-employed Establishment of businessman (and later made the day of his decision the company's Foundation various new Dav)

industrial facilities Established Sanseisha in Shinagawa, Tokyo, setting up Japan's first corrugated board business

Coining of the Japanese term for corrugated board, "danboru" which is still used today

Great Kanto Five companies merged to form Rengo Shiki K.K., capitalized at ¥2 million Earthquake Acquired Nippon Seishi and renamed it the Chifune Plant Taisho Democracy The head office, Tokyo Plant and other facilities were destroyed by fire after the

earthquake, and the head office was relocated to Osaka

Corporate Profile

Company Name	Rengo Co., Ltd.	
Head Office	Nakanoshima Central Tower, 2-2-7 Nakanoshima, Kita-ku, Osaka, Japan 530-0005 Tel: +81-6-6223-2371	
Tokyo Head Office	Shinagawa Season Terrace, 1-2-70 Konan, Minato-ku, Tokyo, Japan 108-0075 Tel: +81-3-6716-7300	
Website	http://www.rengo.co.jp/english/index.html	
Founded	April 12, 1909	
Incorporated	May 2, 1920	
Business Scope	1. Manufacturing and sales of corrugated board, corrugated boxes, folding cartons and other paper products	
	2. Manufacturing and sales of paperboard (containerboard, boxboard and tube board, etc.)	
	3. Manufacturing and sales of flexible packaging and cellophane	
	4. Manufacturing and sales of heavy duty packaging (heavy duty polyethylene bags, kraft paper bags and container bags, etc.)	
	and highly functional resin products	
	5. Sales of packaging-related machinery	

6. Manufacturing and sales of a variety of functional materials

(porous beads made from cellulose, high-performance zeolite pulp, natural antibacterial agent made from wasabi and mustard, etc.)

7. Manufacturing and sale of nonwovens, paper converting machinery, and transportation business, etc.

Laboratories / Packaging Technical Departments

Central Laboratory Central Laboratory (Fukui) Packaging Technical Department, Tokyo Packaging Technical Department, Osaka Shanghai Packaging Technical Center

Mills and Plants / Sales Offices

■Paper mills	Sales offices
Tonegawa Division	Hakodate Sales Office
Yashio Mill	Obihiro Sales Office
Kanazu Mill	Kitami Sales Office
Yodogawa Mill	Asahikawa Sales Office
Amagasaki Mill	Kushiro Sales Office
	Hachinohe Sales Office
Corrugated plants	Akita Sales Office
Eniwa Plant	Yamagata Sales Office
Asahikawa Plant	Morioka Sales Office
Aomori Plant	Mito Sales Office
Shin-Sendai Plant	Kofu Sales Office
Fukushima-Yabuki Plant	Matsumoto Sales Office
Oyama Plant	Suzuka Sales Office
Maebashi Plant	Kanazawa Sales Office
Tokyo Plant	Tottori Sales Office
Chiba Plant	Sanin Sales Office
Shonan Plant	Higashi-Shikoku Sales Office
Niigata Plant	Kochi Sales Office
Nagano Plant	Nagasaki Sales Office
Matsumoto Sub-Plant	Kumamoto Sales Office
Shimizu Plant	Mivazaki Sales Office
Toyohashi Plant	Oita Sales Office
Shin-Nagoya Plant	Kokura Sales Office
Fukui Plant	
Shiga Plant	Folding carton plants
Shin-Kyoto Division	Katsushika Plant
Sanda Plant	Tonegawa Division
Wakayama Plant	Shin-Kyoto Division
Okayama Plant	
Hiroshima Plant	
Matsuyama Plant	Taketu Plant
Hofu Plant	
Tosu Plant	

Rengo Group Companies in Japan

Paperboard: 2 Corrugated packaging / Folding cartons: 42 Flexible packaging / Heavy duty packaging: 5 Other: 19

Rengo Group Companies Overseas

Asia / Europe / Middle East / U.S.

125 plants and 20 representative offices / sales companies