

RUENTEX

 Ruentex Materials Co., Ltd. (8463)

2023 Investor Conference

2023/12

Disclaimer

The forward-looking statements contained in this presentation are subject to risks and uncertainties and actual results may differ materially from those expressed or implied in these forward-looking statements.

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AGENDA

About Ruentex Materials

Financial Overview

Operating Strategy

Q&A



AGENDA

About Ruentex Materials

Financial Overview

Operating Strategy

Q&A

Company

Chairman	Mr. Mo, Wei Han
President	Mr. Chen, Hsueh Hsien
Established Date	Established in 1992
Head Office Address	10F, No.308, Sec.2, Bade Road, Taipei, Taiwan , R.O.C.
Factory Address:	1. No. 357, Da-An Road, Dongshan Township, Yilan County , Taiwan 2. No. 1-7, 8 th Neighborhood, Zhongnan, Ligang Township, Pingtung County, Taiwan
Paid-in Capital	NT\$ 1,500,000,000
Main Profit Driver	Cement, Ready-mixed Mortar, Special building materials sales agent, Interior Design & Decoration Engineering



Business



Ruentex Interior Design

interior design , decoration
engineering , landscape design
engineering

Interior Design

Construction

Ruentex Materials

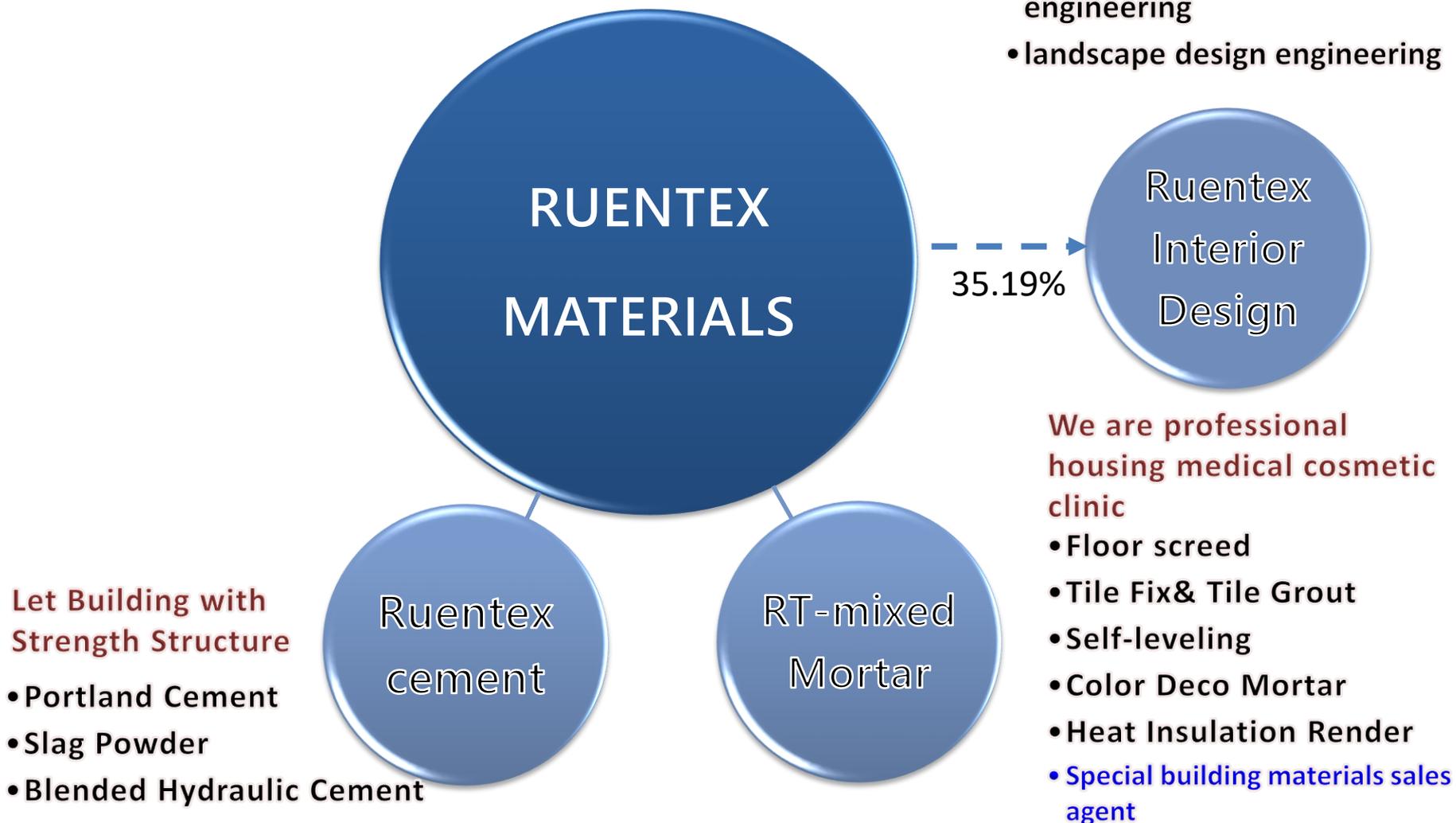
Cement, Ready-mixed Mortar, Mud Construction,
Special building materials sales agent

Building Materials Supply

Architectural Design

Land Development

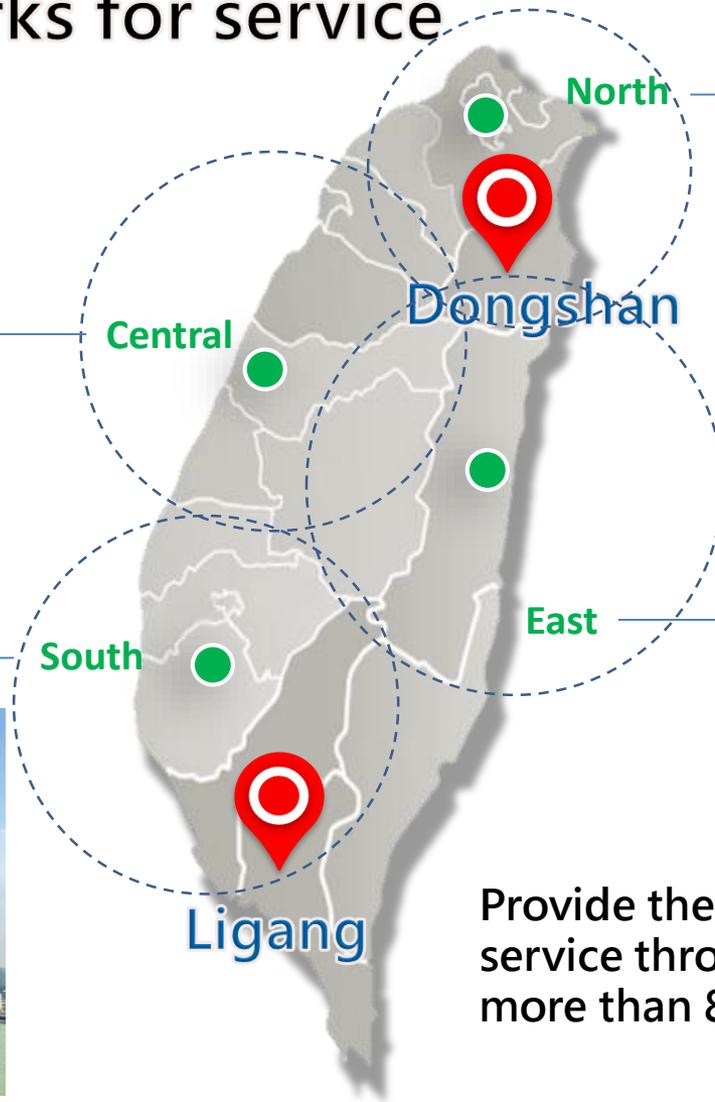
Product



Deep cultivation throughout Taiwan, full marks for service

Hsinchu
Miaoli
Taichung
Nantou
Changhua

Yunlin
Chiayi
Tainan
Kaohsiung
Pingtung



Taipei
New Taipei
Keelung
Taoyuan



Yilan
Hualien



Provide the best and immediately service through the two factories and more than 80 dealers.

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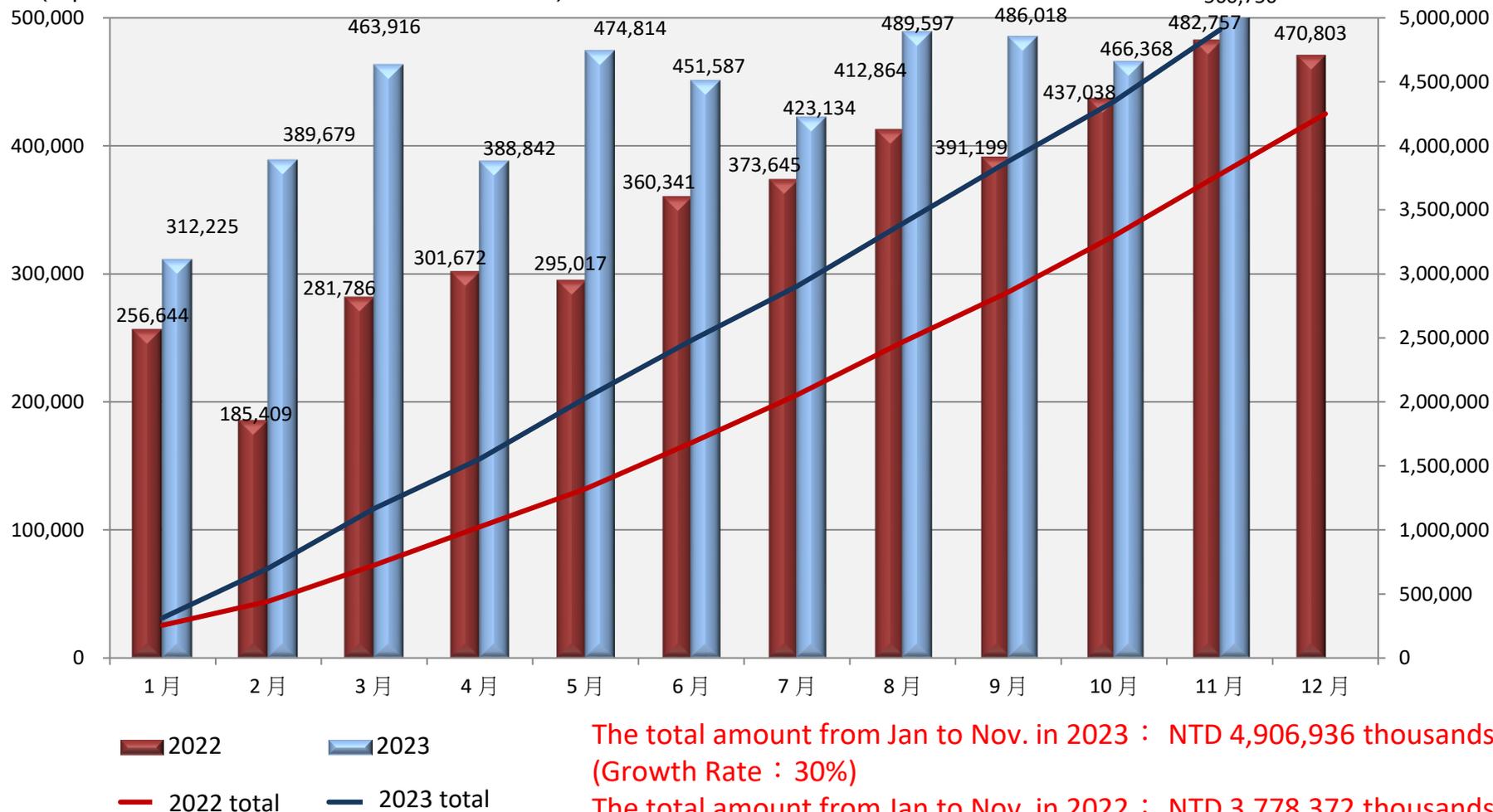
Financial Overview - Balance Sheets

Expressed in Thousands of New Taiwan Dollars

Asset	2023/09		2022/12		Liabilities and Equity	2023/09		2022/12	
	Amount	%	Amount	%		Amount	%	Amount	%
Cash and cash equivalents	246,277	4	652,743	9	Short-term borrowings & notes and bills payable	1,099,925	15	1,259,832	17
Receivables	955,645	13	919,331	12	Payables	834,072	12	736,530	10
Inventories	731,890	10	703,318	10	Other current Liabilities	286,701	4	844,964	11
Other current assets	623,483	9	545,456	7	Long-term loans payable	2,400,000	33	2,000,000	27
					Other non-current Liabilities	59,422	1	70,259	1
Current assets	2,557,295	36	2,820,848	38	Total Liabilities	4,680,120	65	4,911,585	66
Financial asset at fair value through profit or loss -Non-current	585,727	8	645,023	9	Capital Stock-common stock	1,500,000	21	1,500,000	20
Property, plant, equipment	3,679,166	51	3,546,898	48	Capital surplus	677,124	9	711,624	10
Other non-current assets	352,126	5	398,716	5	Retained earnings	182,305	3	101,087	1
					Other equity	(154,434)	-2	(106,174)	(1)
Non-current assets	4,617,019	64	4,590,637	62	Equity attributable to shareholders of the parent	2,204,995	31	2,206,537	30
					NON-CONTROLLING INTERESTS	289,199	4	293,363	4
					Total equity	2,494,194	35	2,499,900	34
Total assets	7,174,314	100	7,411,485	100	Total liabilities and equity	7,174,314	100	7,411,485	100

The Monthly Revenue – 2022~2023

(Expressed in Thousands of New Taiwan Dollars)



Financial Overview - Comprehensive Income

Expressed in Thousands of New Taiwan Dollars, except EPS

項目	2023 Q1	2023 Q2	2023 Q3	2023 Q4	2023 Q1~Q3
Operating revenue	1,165,820	1,315,243	1,398,749		3,879,812
Operation costs	(1,069,015)	(1,137,638)	(1,234,438)		(3,441,091)
Gross profit	96,805	177,605	164,311		438,721
Operating expenses	(63,800)	(87,986)	(82,368)		(234,154)
Operating profit (loss)	33,005	89,619	81,943		204,567
Total non-operating	(13,481)	(14,938)	4,507		(23,912)
Income (Loss)before tax	19,524	74,681	86,450		180,655
Net income (loss)for the year	16,493	62,467	73,066		152,026
Total comprehensive income (loss)	(63,037)	99,568	57,888		94,419
Net income (loss) attributable to: Shareholders of the parent	4,225	37,906	39,087		81,218
Earnings(Loss) per share	0.03	0.25	0.26		0.54

Income before tax in 2023Q1-Q3 is NTD 180,655 thousands
 (Growth Rate : 134%)

Income before tax in 2022Q1-Q3 is NTD 77,196 thousands

Although production costs continue to rise this year (raw materials, electricity bills, etc.), but with stable production and growth in sales volume, this year's net profit has increased compared with last year.

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Environmental Protection • Marketing • Niche Product

Circular Economy, Energy Conservation and Carbon Reduction

Ready-mixed Mortar Deep Cultivation and Promotion, Building Materials Agent

Innovative R&D of Niche Products : New developments and special functional products

Develop Sustainable Product : Micro Expanded Glass and Renewable Energy Related Materials

Interior Design, Decorate Engineering and Landscape Design Engineering

The Trends of Cement Industry

臺灣 2050 淨零排放 路徑及策略總說明



國家發展委員會 行政院環境保護署
經濟部 科技部 交通部 內政部
行政院農業委員會、金融監督管理委員會
2022 年 3 月 30 日

Industrial Transition

Manufacturing Sector

3 aspects - 11 measures

Process Improvement

- Replacement of old appliances
- Energy saving (Digitalization)
- Development of hydrogen technology
- Reduction of F-gases

Fuel Switching

- Expanding usage of natural gas
- Expanding usage of bioenergy
- Adopting clean energy/hydrogen

Circular Economy

- Raw material replacement
- Refuse Derived Fuel (RDF)
- Energy Resources Integration
- CCU technology



Cooperate with the policy and continue to implement the carbon reduction method of “substitution of raw materials and fuels” and “energy resources integration” to reduce carbon emissions.

Substitution of Raw Materials

Raw Materials	Condition of execution
Limestone	<ul style="list-style-type: none"> In 2014, a test study was conducted to introduce the utilization of recycled slag, absorbing approximately 60,000 tons of by-products from domestic steel rebar manufacturing processes. In 2016, a test study was initiated to explore the utilization of desulfurized slag, with an annual consumption of approximately 90,000 tons of by-products from the desulfurization process in domestic integrated steel plants. Calcium raw material substitution rate is approximately 15%.
Clay	<ul style="list-style-type: none"> The main source is construction waste soil, addressing the issue of on-site earthwork disposal. In 2018, contaminated soil treatment technologies were initiated.
Iron ore sand	<ul style="list-style-type: none"> Mainly utilizing steel slag to eliminate by-products from the steel industry.
Silicon ore	<ul style="list-style-type: none"> In 2017, the Glass Fiber Reutilization Project, which substitutes silicon ore, was launched to collaboratively address issues within the fiberglass industry.



Substitution of Fuels

Fuels	Condition of execution
Coal	<ul style="list-style-type: none"> • In 2017, the implementation of a waste PET bottle testing project was carried out. • In 2018, tests were conducted on the utilization of oil ash. • In 2020, obtained qualification for solid derivative fuels such as crushed residual materials from scrapped vehicles and waste wood (170044). • In 2023, invested in the construction of a consistent feeding system to reduce coal consumption through gasification in the furnace.



Resource & Technology Integration

Resources	Condition of execution
<p>Waste heat utilization</p>	<ul style="list-style-type: none"> In 2013, the consolidation of the Building Materials Business Unit (RT-MIX), integrating the utilization of waste heat from cement plants for sand drying, functionalizing RT-MIX products, implementing energy-saving in construction, achieving substantial carbon reduction benefits, and obtaining low-carbon building material certification. In 2023, invested in a waste heat silica sand drying and screening system for the cement plant.

 Integrating the utilization of waste heat for sand drying, continuously reducing carbon emissions by 3,000 tons per year.

Resources	Condition of execution
<p>Waste Glass</p>	<ul style="list-style-type: none"> In 2016, start the project of the cement kiln treatment for waste glass application. In 2018, construct the expend glass laboratory for pre-manufacture parameters experiment. In 2021, the construction of the factory commenced, and as of 2023, trial production and parameter adjustments are currently underway. The expected maximum annual production capacity is 9,000 tons..

 Reproducing the waste glass into high value and various products is able to reduce approximately 10,000 ton of landfilling a year.



Environmental Protection • Marketing • Niche Product

Circular Economy, Energy Conservation and Carbon Reduction

Ready-mixed Mortar Deep Cultivation and Promotion, Building Materials Agent

Innovative R&D of Niche Products : New developments and special functional products

Develop Sustainable Product : Micro Expanded Glass and Renewable Energy Related Materials

Interior Design, Decorate Engineering and Landscape Design Engineering

**The deep cultivation
and promotion of
in-house products**

ready-mixed
cement mortar

Interior Wooden Doors

**Import agency for
high-quality
building materials**

【ready-mixed cement mortar ?】



RT-MIX ready-mixed cement mortar

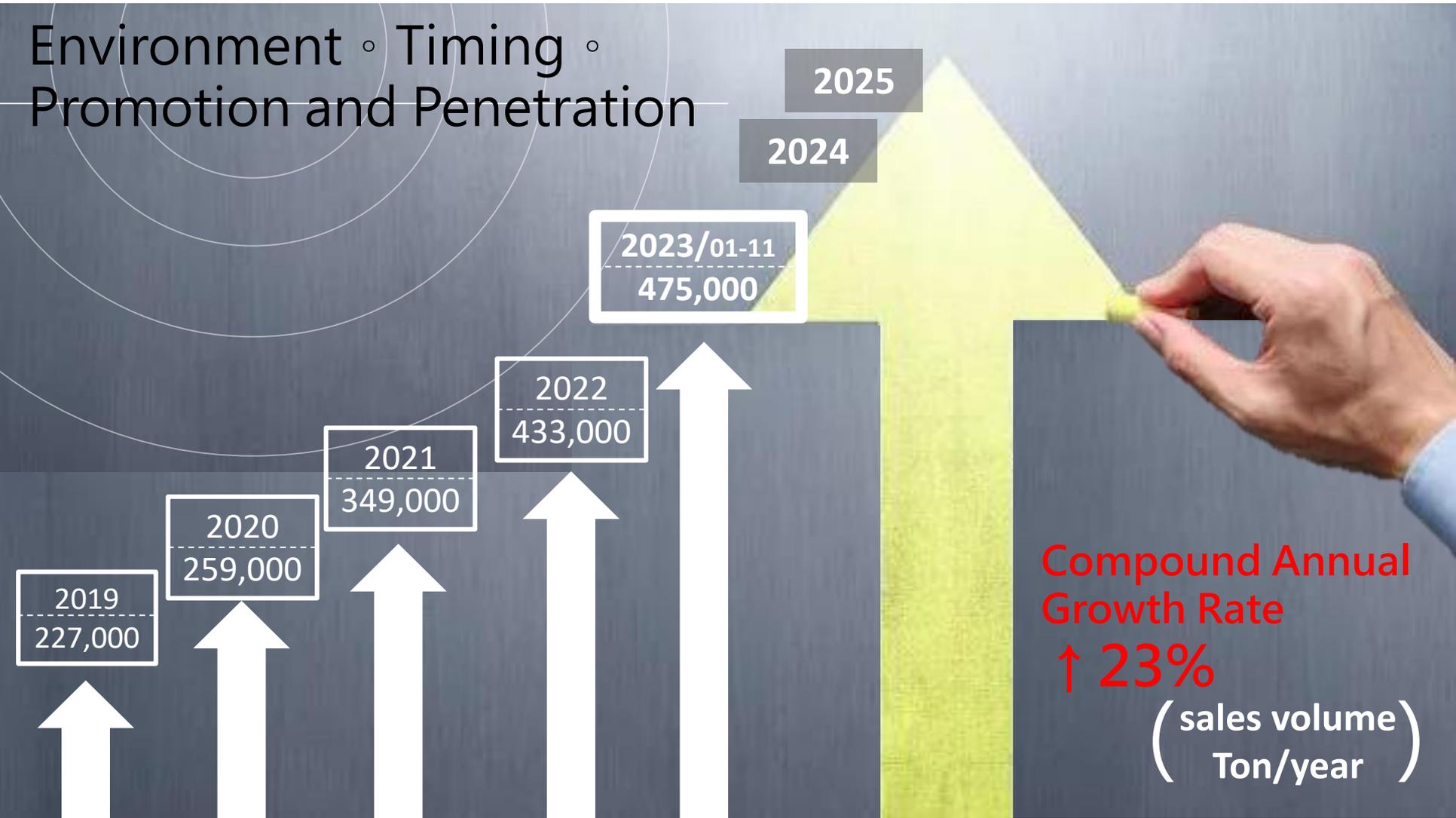
Through the strict control and accurate calculation of sand and cement then mixed automatically and precisely. Packing and palletizing on pallets, clean and neat.



Depending on worker's experience

Mixing on the ground with water, unsourced sand/material and scale and dust polluting on site.

Environment · Timing · Promotion and Penetration



Exhibitions • Seminars • Increase product popularity

2023/07 Tainan Building Show



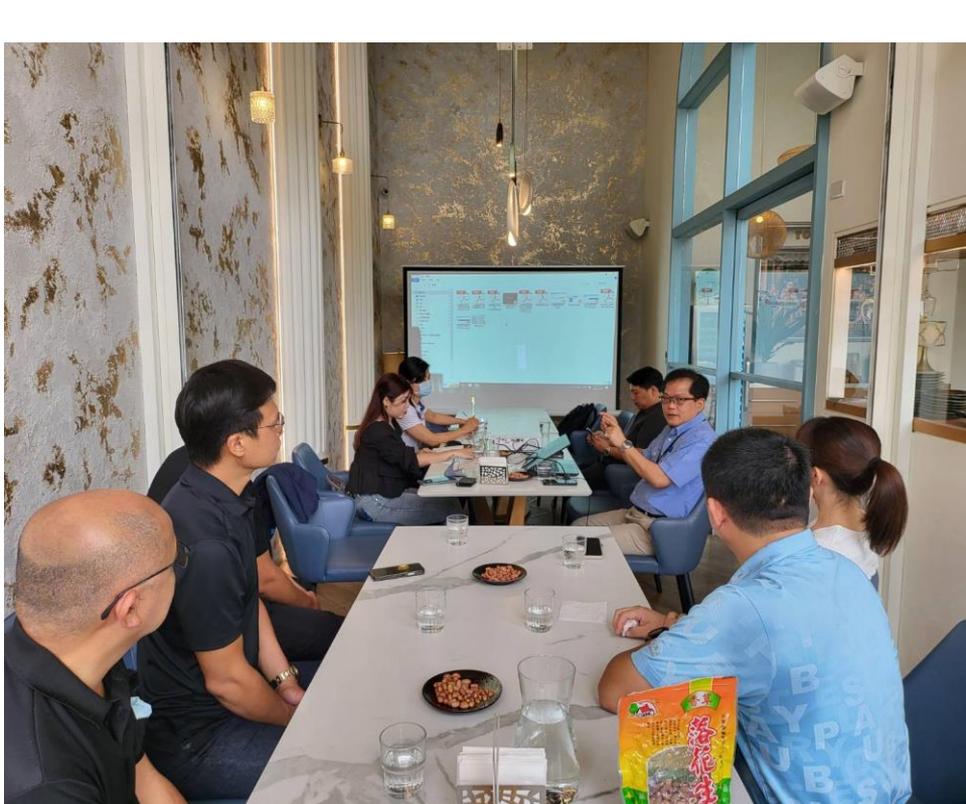
Exhibitions • Seminars • Increase product popularity

2023/12 Taipei Building Show



Exhibitions • **Seminars** • Increase product popularity

2023 Seminar/New Product Launch



Building Materials Agency – Interior Wooden Doors



NIHON
FLUSH

The company was founded in 1965, with its headquarters located in Tokushima, Japan. It has two production facilities in Japan: Tokushima (factory area of 24,300m²) and Hokkaido (factory area of 3,145 m²). Additionally, the company has multiple large production factories and storage bases overseas.

The company specializes in manufacturing various wooden home products, including interior doors and door frames, sliding doors, folding doors, decorative cabinet doors, paneling, background walls, and more. All products comply with the F4 star standard, meeting the highest health grade of Japan's environmental standards and also conforming to the highest international standards.

In 2015, the company went public on the Tokyo Stock Exchange, becoming the only publicly listed wooden door company in Japan.



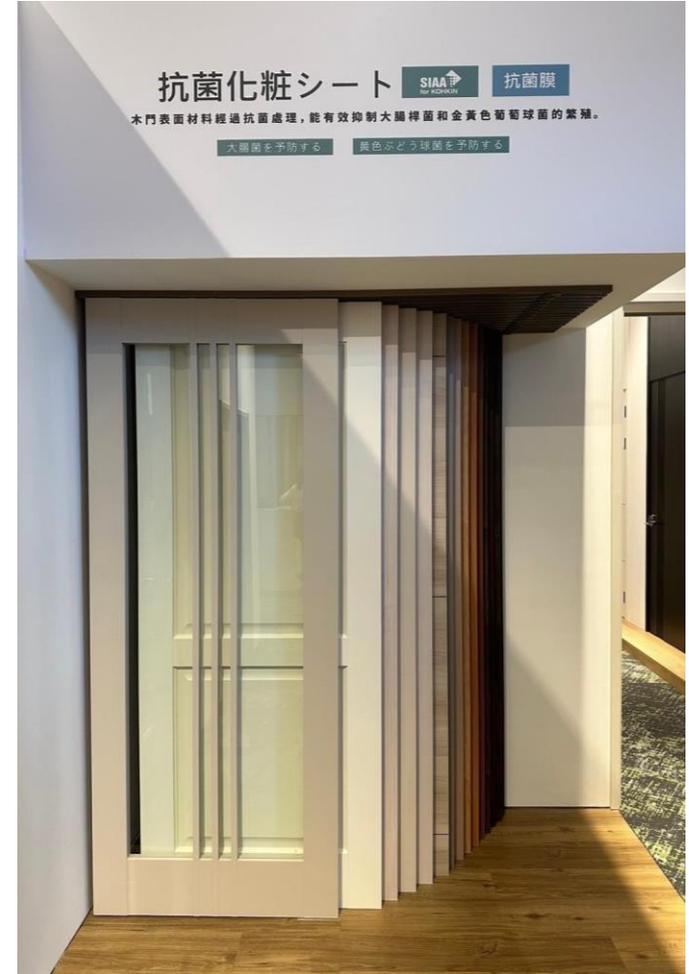
Building Materials Agency – Interior Wooden Doors

To develop brand agent sales, a new exhibition center has been constructed within the group's self-operated shopping mall (CITYLINK SONGSHAN No. 1 Store 3F).



Building Materials Agency – Interior Wooden Doors

Exhibition Center



Environmental Protection • Marketing • Niche Product

Circular Economy, Energy Conservation and Carbon Reduction

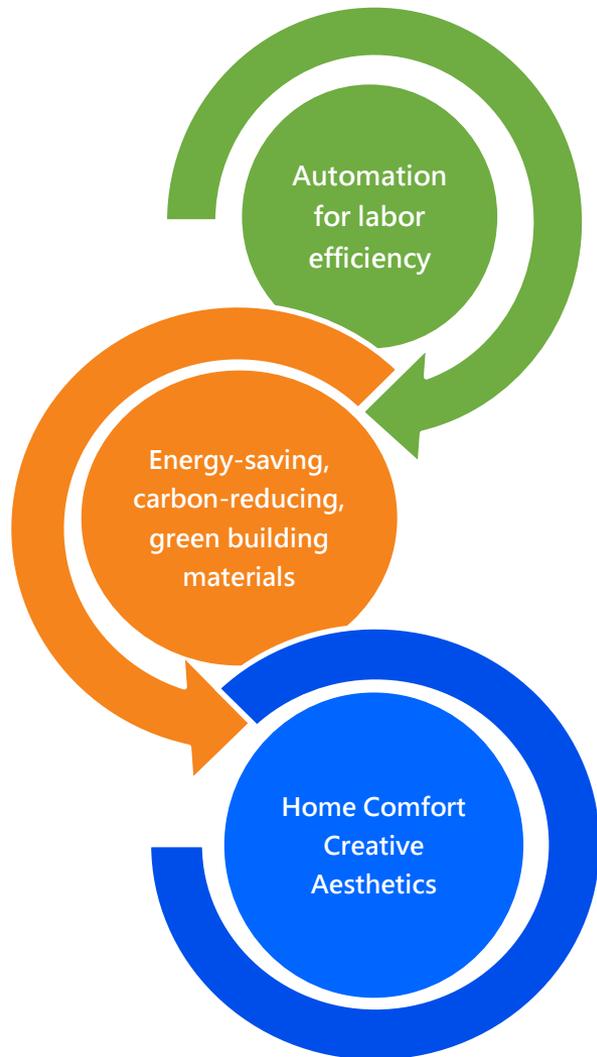
Ready-mixed Mortar Deep Cultivation and Promotion, Building Materials Agent

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Interior Design, Decorate Engineering and Landscape Design Engineering

Innovation Research and Development



In response to labor shortages and in line with new construction methods, we have developed a series of mortar products to meet the current industry demands

Interface Adhesives · Super Thick Render · Floor Mortar · Putty

Energy-efficient, environmentally friendly, recyclable, and low-carbon building materials

Heat Insulation Render · Permeable Pavement Mortar · Reuse of Bottom Powder Agglomerates

Comfortable home living, a new aesthetic in plastering, making a significant entry into the home renovation market

Sound Proof Mortar · Wear-resistant floor · Creative Aesthetics Floor

Automation
for labor
efficiency

In response to labor shortages and in line with new construction methods, we have developed a series of mortar products to meet the current industry demands





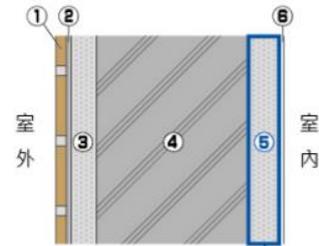
Energy-saving,
carbon-reducing,
green building
materials



Energy-efficient, environmentally friendly, recyclable, and low-carbon building materials



熱傳導係數K值 僅傳統水泥砂漿 1/10



- RC牆外貼磁磚
- 總壁厚約20cm
- 室內砂漿厚度以3cm計算

結構大樣	厚度 dx [m]	熱阻係數 1/kx [m.K/W]	熱傳透率總計 U=1/R [W/(m².K)]	綠建築標章得分 (總分4分)
外氣膜(室外)	----	1/23.000		
①磁磚	0.0100	1/1.300		
②磁磚黏著劑	0.0050	1/1.500		
③水泥砂漿	0.0250	1/1.500		
④鋼筋混凝土	0.1500	1/1.400		
⑤節能隔熱材	0.0300	1/0.140	1.97	4.00
⑥一般水泥砂漿	0.0300	1/1.500	3.20	0.00
⑥水泥粉光材	0.0050	1/1.500		
內氣膜(室內)	----	1/9.000		

⑤以節能隔熱材CM197取代傳統水泥砂漿，有效降低熱傳透率並取得滿分4分！

一般水泥砂漿熱傳透率較高



本產品經 BIM 模擬分析

台灣建築中心 優良工法/產品認證

夏季時室內溫度約可 降低4.2度

冬季時室內溫度約可 提升5.7度

全年平均空調負荷量 減少30%

夏季室溫較傳統砂漿 降低3度以上

材料	年空調耗能 冷噸數(Wh)	年總耗能 節能比例
CM197	736,760	30.67%
傳統牆體	926,141	-



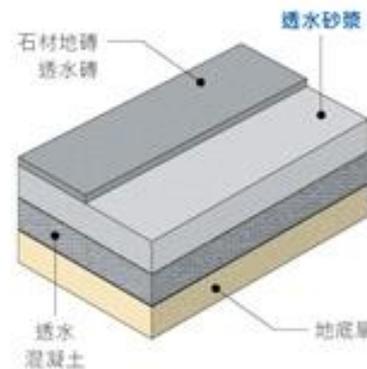
- Easy-to-apply thermal insulation mortar, no need for special workers
- The average annual sales growth rate over the past three years (2021~2023/1-11) is over than 45%.



Energy-efficient, environmentally friendly, recyclable, and low-carbon building materials

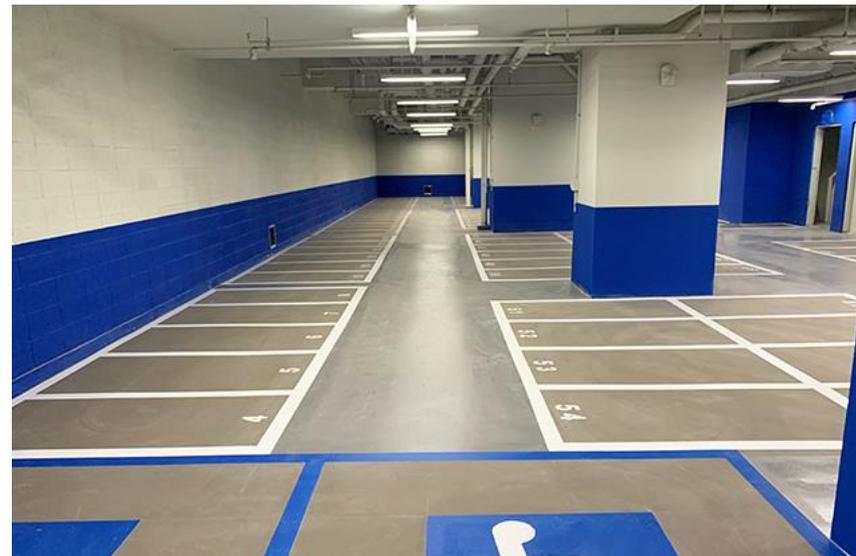
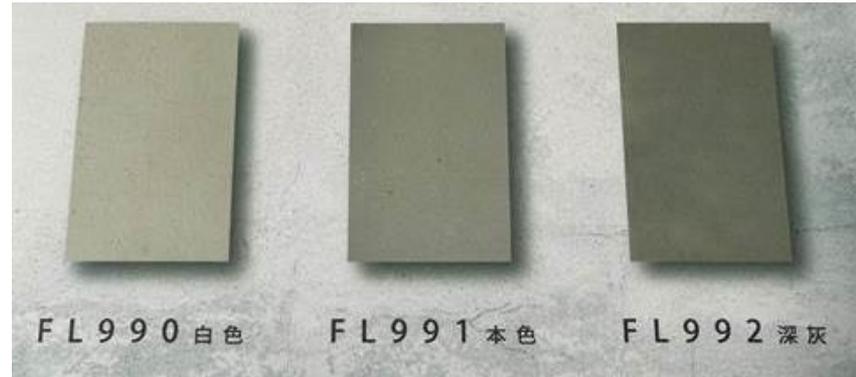


- Porous fine structure, combined with the use of permeable bricks, achieves rapid permeation and drainage effects, preserving groundwater resources





Comfortable home living, a new aesthetic in plastering,
making a significant entry into the home renovation market



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Develop Sustainable Product : Micro Expanded Glass and Renewable Energy Related Materials

Interior Design, Decorate Engineering and Landscape Design Engineering

The environment is currently facing challenges related to glass waste disposal in Taiwan .



Waste glass containers

圖片來源:TVBS新聞網



Waste glass fibers

圖片來源:中時新聞網



Waste solar panels

圖片來源:環境資源中心(郭志榮攝)



Vehicle waste glass

圖片來源:Safelife Auto Glass

Immature reproducing technique- 100% reuse of disposal glass is lowly achieved.

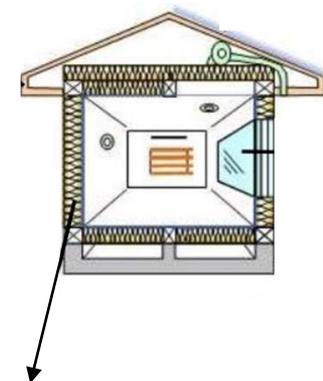
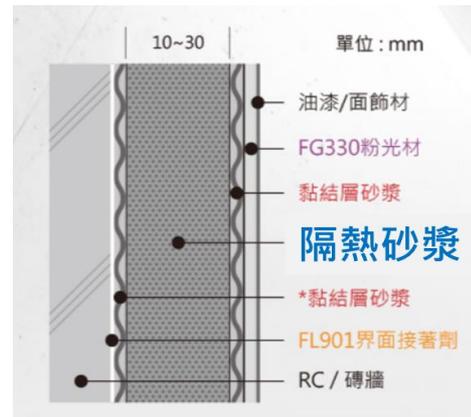
- Only 50% of recycled glass is used for reproducing glassware



- The quantity of waste solar panels is increasing year by year
- There is currently no effective technology for the recycling and reuse of waste solar panels



- Developing the key materials for wall construction -> Thermal insulation materials- Ruentex micro expanded glass.

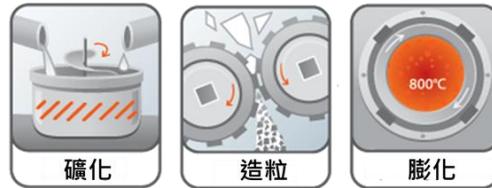


Ruentex Micro Expanded Glasses

- The novel manufacturing technology uses the waste glass & silicone resource as core green materials



Silicon Resource Recycling Materials



Recycling and Reuse > 65% Waste Glass Resources



Silicate Inorganic Porous Foam Material

- Building construction applications :
Environmental friendly 、 thermal insulation 、 light weight 、
energy saving 、 sound absorption.



Ruentex Micro Expanded Glasses

- Due to There is not efficient production technology domestically. The functional expending materials mainly require importation from other countries.



Perlite : Source China(import)



High functional expand particles: European (import)

- The long distance transportation represent high carbon footprint

輕質微珠生產技術分布(全球僅6家、7個生產點)

Poraver (GER)	Liaver (GER)	Kramer (GER)
BPN (RUS)	Stikloporas(LTU)	Ecolite (AUS)



The Core Value of Ruentex micro expended glass materials

- 01** Assisting **the government & industries** to recycle the waste glass into valuable materials.
- 02** **The largest micro expended glass manufacturer in Taiwan,** localize the high functional materials.
- 03** **Sustainable resource**、**Environmental friendly**、**Energy Saving** & **Carbon reduction** for waste glass.



The Three "Local" :
Local Recycle、**Local Production**、**Local Saving**



Decrease of Carbon footprint

Renewable Energy Related Materials



U799 / U769

Offshore Wind
Turbine Foundation
Ultra-High Strength Grout

Type	Characteristic
Monopile/ Jacket	<ul style="list-style-type: none"> ▼ Early Strength ▼ Anti Washout ▼ Easy Mixing

- Ruentex Materials is **Taiwan 1st and worldwide 3rd** qualify company to produce offshore grout materials.
- Ruentex Materials already have DNV certification for U799.



G705 Series

Offshore Wind
Turbine Foundation
Underbase Filling Material

Type	Characteristic
Suction Bucket Jacket	<ul style="list-style-type: none"> ▼ Special Cement



T508 Series

Onshore Cable
Thermal Grout

Type	Characteristic
Onshore Cable	<ul style="list-style-type: none"> ▼ High thermal conductivity ▼ HDD Construction ▼ Customize ▼ Easy Remove



Offshore Wind Related Products

ShifuGrout T508series
(Thermal grout)
Horizontal Directional
Drilling

ShifuGrout G705
Underbase Filling
Material

ShifuGrout U799/U769
(turbine foundation
grouting material)

1. Special for **Suction Bucket Jacket**
2. **Can be customized**

High-voltage
power transmission

Onshore
substation



Onshore cable

Offshore
substation

Wind
turbine

Submarine
cable

1. **Taiwan Only** Thermal Grout Supplier
2. **Track Record** Formosa II · Great Changhua
3. Experience With **Local** Grouting Company

ShifuGrout U799 / U769

(Foundation Ultra High Strength Grout)

High Strength

U799: 28 days > 18,000psi

U769: 28 days > 15,000psi

Ordinary concrete only 5,000psi at 28 days

U799/U769 3 days can have over 10,000psi

Flowability

U799 > 1.5 hours

U769 > 2 hours

(ordinary concrete less than 1hr)

Anti-Washout

Ordinary concrete will spread in water

U799/U769 has **great viscosity** strong cohesion in water



Easy Mixing

< 6 minutes/tonne

Ordinary concrete need 12mins/tonne to mix

U799/U769 can well mix with 6mins/tonne

Effectively reduce working hours

U799
Big Bag

U769
Silo

**Foundation
Grouting Methods
Difference**

ShifuGrout G705

(Foundation Filling Material)

Worldwide exclusive can be suitable with Big Bag and Silo system

Worldwide exclusive can be work at **8-40°C**

Mortar has high water penetration and high fluidity

Fluidity > 20cm for 2hrs at 8-40c

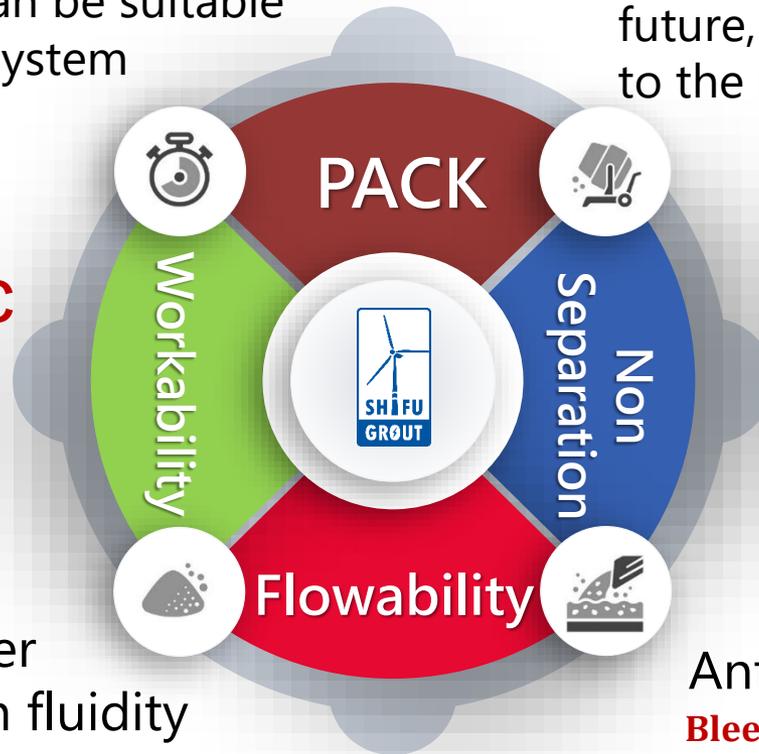
28days > 1MPa at 8-40c

High cement content and low strength require, easy remove in future, environmentally friendly to the marine environment.

Seawater segregation resistance of mortar

Anti-bleeding

Bleeding rate < 1% for 2hrs at 8-40c



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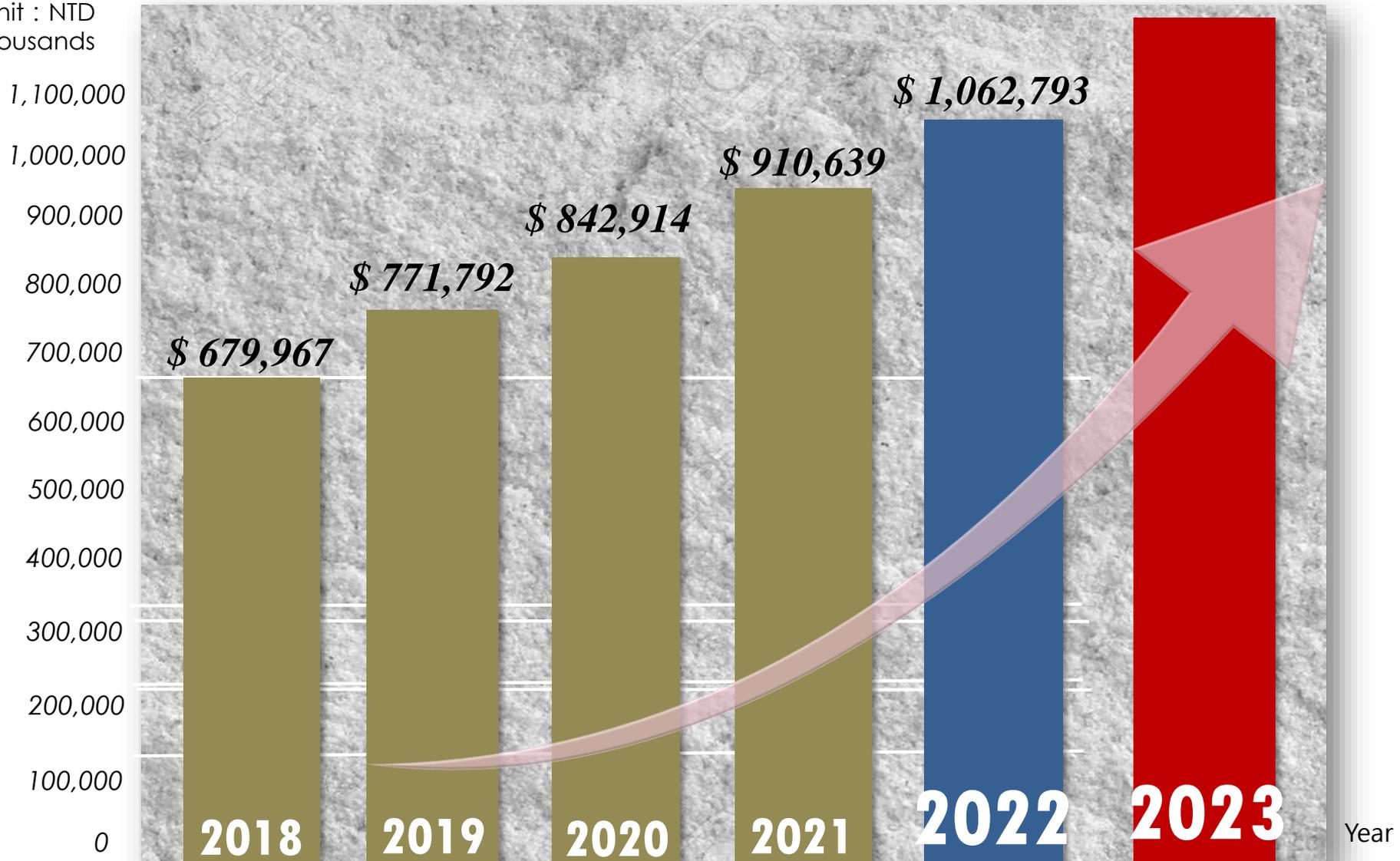
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Ruentex Interior Design Business Performance – The Annual Revenue

Unit : NTD
Thousands



Major Events of Ruentex Interior Design (RID) in 2021&2022

2021.05.19 During SEO of RID, shareholder's Meeting of Ruentex Materials decided to give up the its stock option right to its shareholders.

2021.08.10 RID's board of directors decided to proceed SEO.

2021.09.14 It's the reference date of SEO. Ruentex Materials's shareholding ratio decreased to 38.89%.

2021.11.26 RID held shareholder's meeting and planned to apply for emerging stock market.

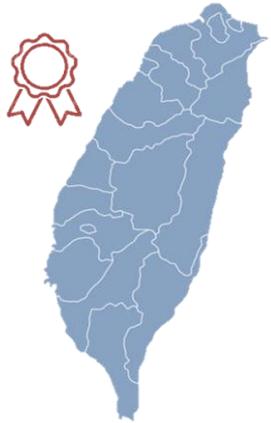
2022.07.19 Ruentex Materials allocated 500,000 shares of RID for underwriting and counseling brokers to subscribe. Ruentex Material's shareholding ratio decreased to 35.19%.

2022.07.25 RID registered in emerging stock market (6881) and became a new recruit stock under Ruentex Group.

Ruentex Interior Design has the ability to undertake indicative large-scale space and landscape design projects

1

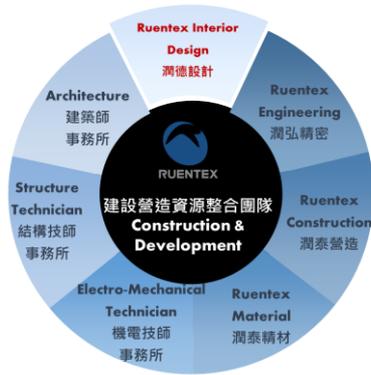
The only interior decoration design company under the top 5 groups in Taiwan



Credit guarantee Sustainable service

2

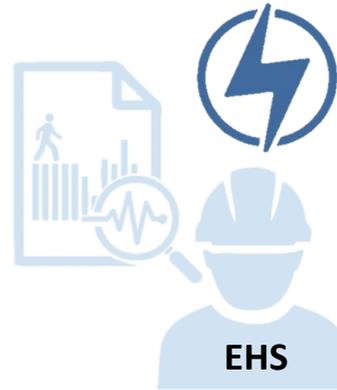
Group construction business group
Resource Sharing



**Stable and good quality subcontractor support
No delay in construction period during the epidemic**

3

Own mechatronic design department
Quality Labor Safety Management Department



**No subcontracting costs
Greatly improved control efficiency**

4

The only one in the industry
Action I PAD Quality Management System



**Exclusive Site patrol system
EHS and QC detection**

Clients



Clients



 TÜVRheinland®
Precisely Right.
  BANK OF SINGAPORE
International Private Banking





 三菱地所
  CHIEF | 是方
  CHIMEI
  VOLVO

 連雲建築
Lienyun Group
  文化部
MINISTRY OF CULTURE, TAIWAN
  EPSON
EXCEED YOUR VISION
  SHISEIDO

 國立臺北護理健康大學
National Taipei University of Nursing and Health Science
  ZEISS
  PORSCHE
  法鼓山

 MUFG
  國票金融控股公司
IBF FINANCIAL HOLDINGS
  KIRIN

 ufiSpace
  PHILIPS
  鬚鬚張
FORMOSA CHANG

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RUENTEX

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Thank You for Your Attention

