



RETO ECO-SOLUTIONS,INC
NASDAQ: RETO

Solid Waste Integrated
Treatment Systems Department

PRODUCT MANUAL



RETO ECO-SOLUTIONS,INC.

Chinese craftsmanship German quality

National brand Nrtisan spirit



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RETO Technology Improves Ecology



1. RETO Corporation Rings the Bell in the United States
 2. Shareholders with NASDAQ staff
 3. Chairman poses at NASDAQ
 4. Founding shareholders of RETO Corporation pose for a photo
 5. Chairman holds a crystal cup presented by NASDAQ
 6. Times Square in New York City

RETO Ecological Corporation is a leading high-tech operator and solution provider in China for ecological restoration and comprehensive utilization of solid waste.

RETO follows the natural laws of the ecosystem, comprehensively utilizes waste, restores the ecological functions and natural attributes of damaged areas for human utilization, and achieves a win-win situation for ecological restoration and regional economic development. Over the years, RETO has developed a mature one-stop ecological management solution and business model as its main business:

1. Comprehensive utilization of solid waste, including technology research and development, equipment manufacturing, and production and sales of end products derived from solid waste utilization.
2. Ecological management and restoration of damaged areas, including vegetation restoration, soil improvement, water pollution control, and further commercial development and utilization that generate economic benefits.
3. Development of new eco-improvement products for households, introducing environmentally friendly building materials and household ecological products into homes to improve the small-scale environment at the household level and enhance the overall ecological environment.

Corporate Qualification and Certification



Patent



Patent



Recommended Certified Equipment



Quality Management System Certification



CE Certification



Chinese brand



Famous Chinese brand



National leading enterprise in new wall material equipment



Designated production enterprise for products

Company Introduction



Fully Automatic·Fully Satisfactory



INTEGRITY

QUALITY

INNOVATION

Reto Eco Solutions Co., Ltd. (NASDAQ: RETO), founded in 1999 in Beijing, and listed successfully in the NASDAQ in November, 2017, oversees Beijing REIT Equipment Technology Co., Ltd.

Beijing REIT Equipment Technology Co., Ltd specializes in manufacture and sales of eco-friendly construction materials using solid waste as raw materials, and equipment for the production of environmentally-friendly building materials for the construction of urban eco-environment such as the construction of a sponge city, consultation, design and project implementation. In addition, REIT also provides integrated solutions such as engineering support, technical consultation and after-sales service for manufacturers and environmental protection projects that produce eco-friendly building materials.

REIT is the earliest company in China to develop, produce, and export large-scale automatic waste resource utilization equipment. It is also the first block manufacturer that have export equipment to developed countries such as USA, Canada.

While fully absorbing the advantages of integrating European and American equipment, REIT R&D team devotes itself to research and innovation and has developed our own brand equipment. Its solid waste equipment, as a well-known Chinese brand, can rival the top international brands. With several hundred units set up in the world, all the equipment operates stably both at home and abroad.

REIT designed and manufactured solid waste equipment using pretreated solid waste through batching and mixing, vibration molding and other processes to produce various types eco-friendly building materials which can be widely used in municipal engineering, water conservancy projects, roads construction, construction engineering and sponge city engineering construction and so on.

The Core Technology



► Block Making Machine

High quality products: patent multi-shafts vibrator combines floating vibration table make concrete products even and compact. With off-mold brake and pallet position device guarantees product quality from details.

Prolong equipment life: Cruising technique keeps motor temperature. Hydraulic drive compulsory feeding which is durable for batching rough material.



► Batching and Mixing System

Fast & even mixing: planetary mixer.

Accurate water cement ratio: brand microwave moisture measurement.

Accurate weighing: computer control.

Master of Fully Automatic Block Production Line



► Cubing System

High Stability : independent hydraulic station.

Accurate cubing: digital encoder& Inverter.

Avoid products drop out: gear-rack transmitting ensures stable movement of cuber.

► 12 Layers Handling System

Accurate positioning: multi-positioning & patent driven system.

Stable movement: variable frequency technique.

Unattended operation: safety engineering such as self-locked & interlocking.



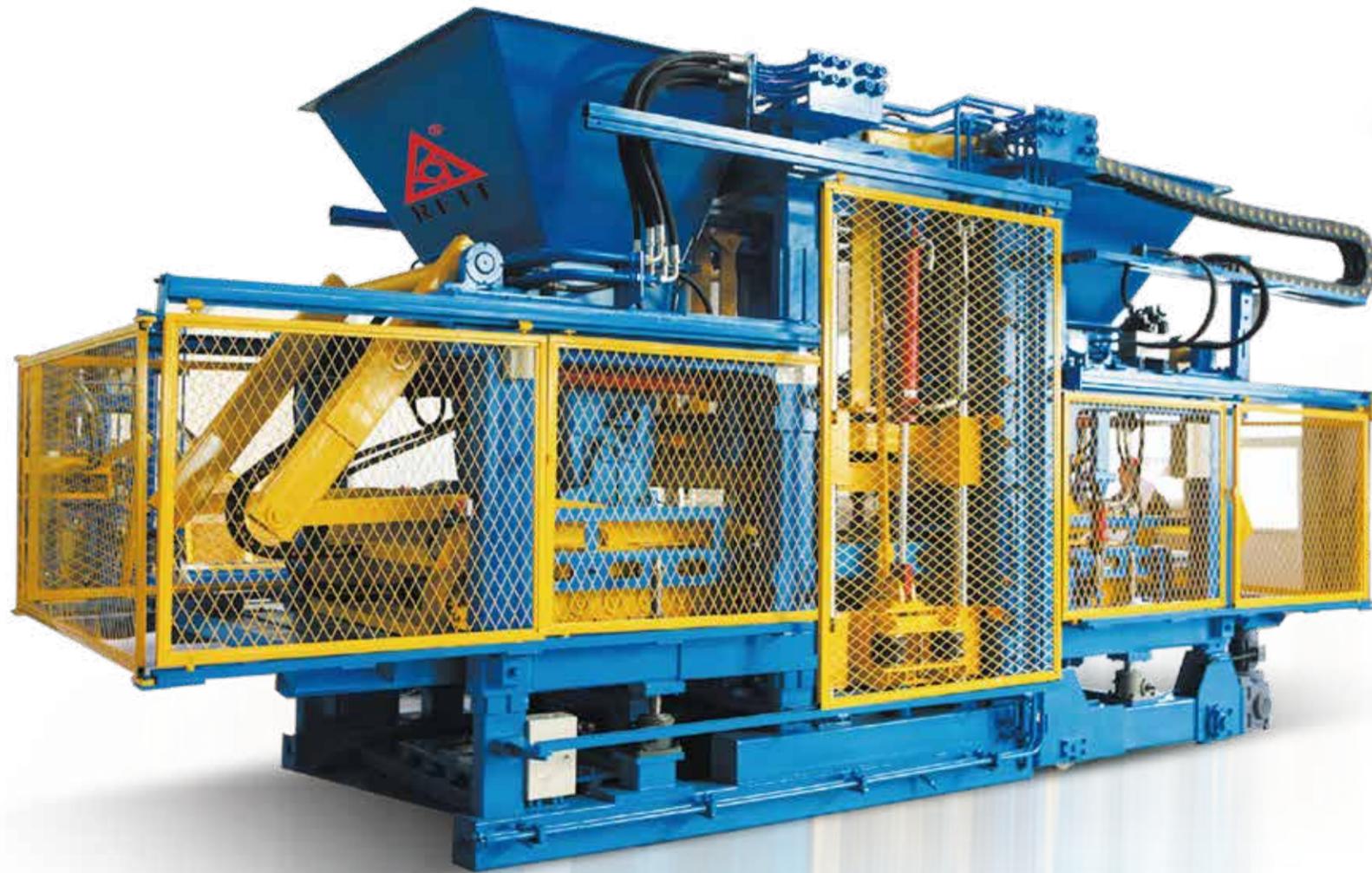
► Control Group

Adopt world-famous brand components. Mature visualized software easy to operate, with auto error diagnosis and remote control function.



Whole set of production line uses variable-frequency technique, saving 20 percent energy.

Integrated Solid Waste Solution Supplier



RTQT18 Block Making Machine



Air Bag



Fast Feeding Device



Floating Vibration Table and Pallet Positioning Device



Hydraulic System



Control Group

► RTQT18 Block Making Machine

Technical Specification	Operation Cycle	Height of Product	Pallet Size	Working Area
Technical Parameters	15-30(s)	60-400(mm)	1400×1350(mm)	1300×1250(mm)



RTQT15 Block Making Machine



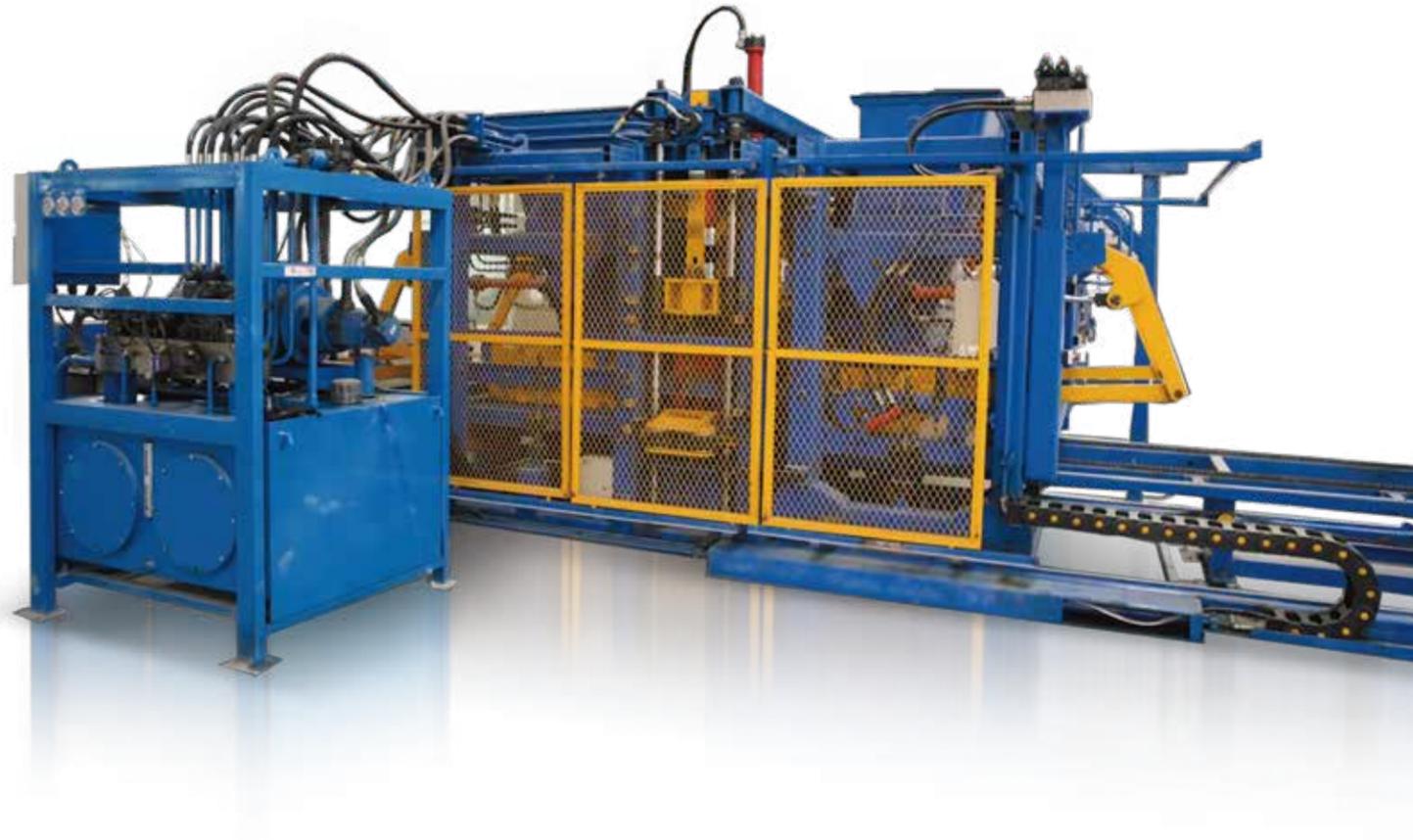
RTQT12 Block Making Machine

► RTQT15 Block Making Machine

Technical Specification	Operation Cycle	Height of Product	Pallet Size	Working Area
Technical Parameters	15-30(s)	60-400(mm)	1400x1150(mm)	1300x1050(mm)

► RTQT12 Block Making Machine

Technical Specification	Operation Cycle	Height of Product	Pallet Size	Working Area
Technical Parameters	15-30(s)	50-300(mm)	1350x900(mm)	1260x830(mm)



RTQT9 Block Making Machine



RTQT6 Block Making Machine

► RTQT9 Block Making Machine

Technical Specification	Operation Cycle	Height of Product	Pallet Size	Working Area
Technical Parameters	15-30(s)	50-300(mm)	1350x700(mm)	1250x650(mm)

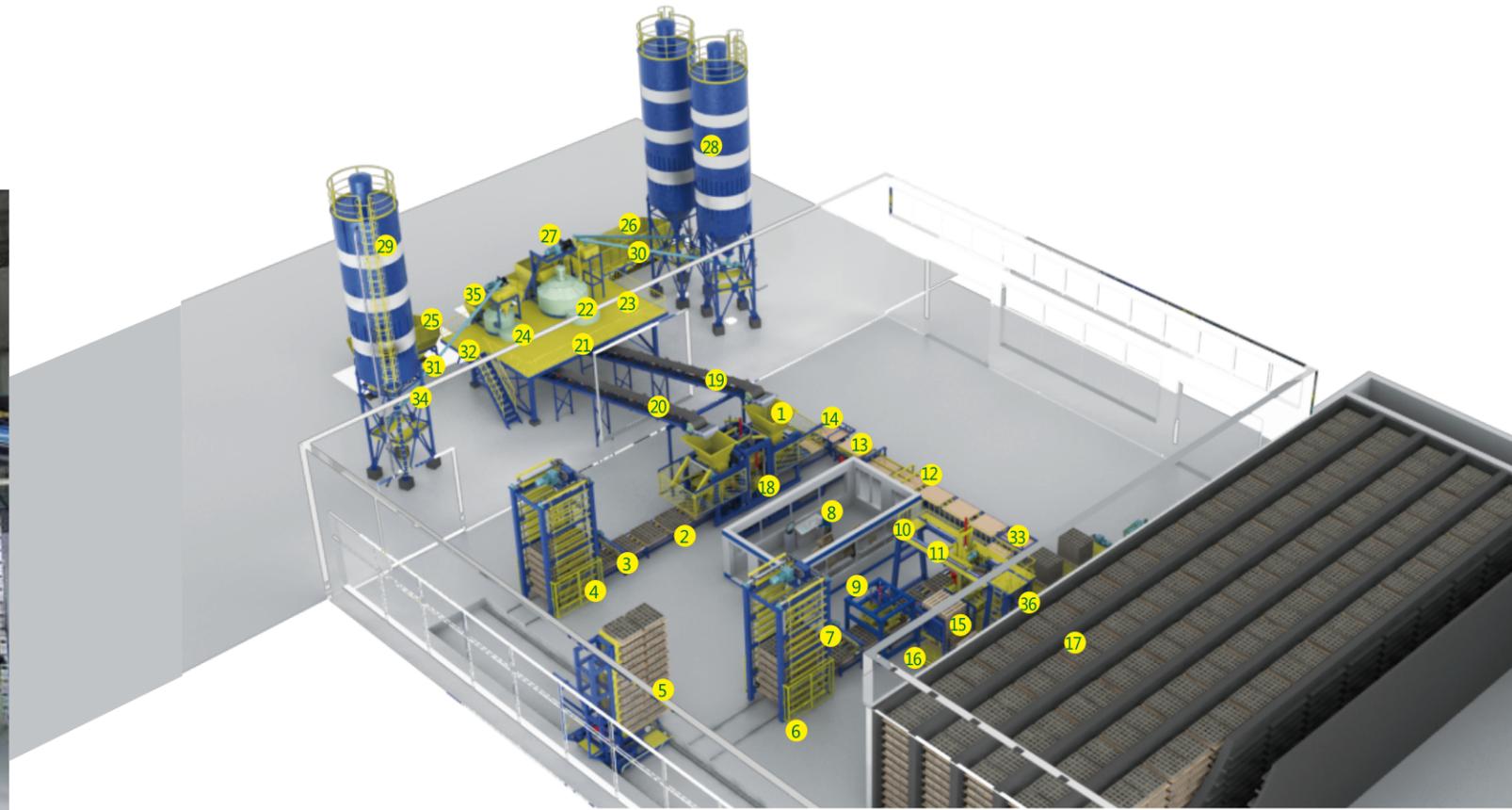
► RTQT6 Block Making Machine

Technical Specification	Operation Cycle	Height of Product	Pallet Size	Working Area
Technical Parameters	15-30(s)	60-220(mm)	900 x 700(mm)	820 x 630(mm)

Integrated Solid Waste Solution Supplier



REIT Fully Automatic Block Production Line Model-A



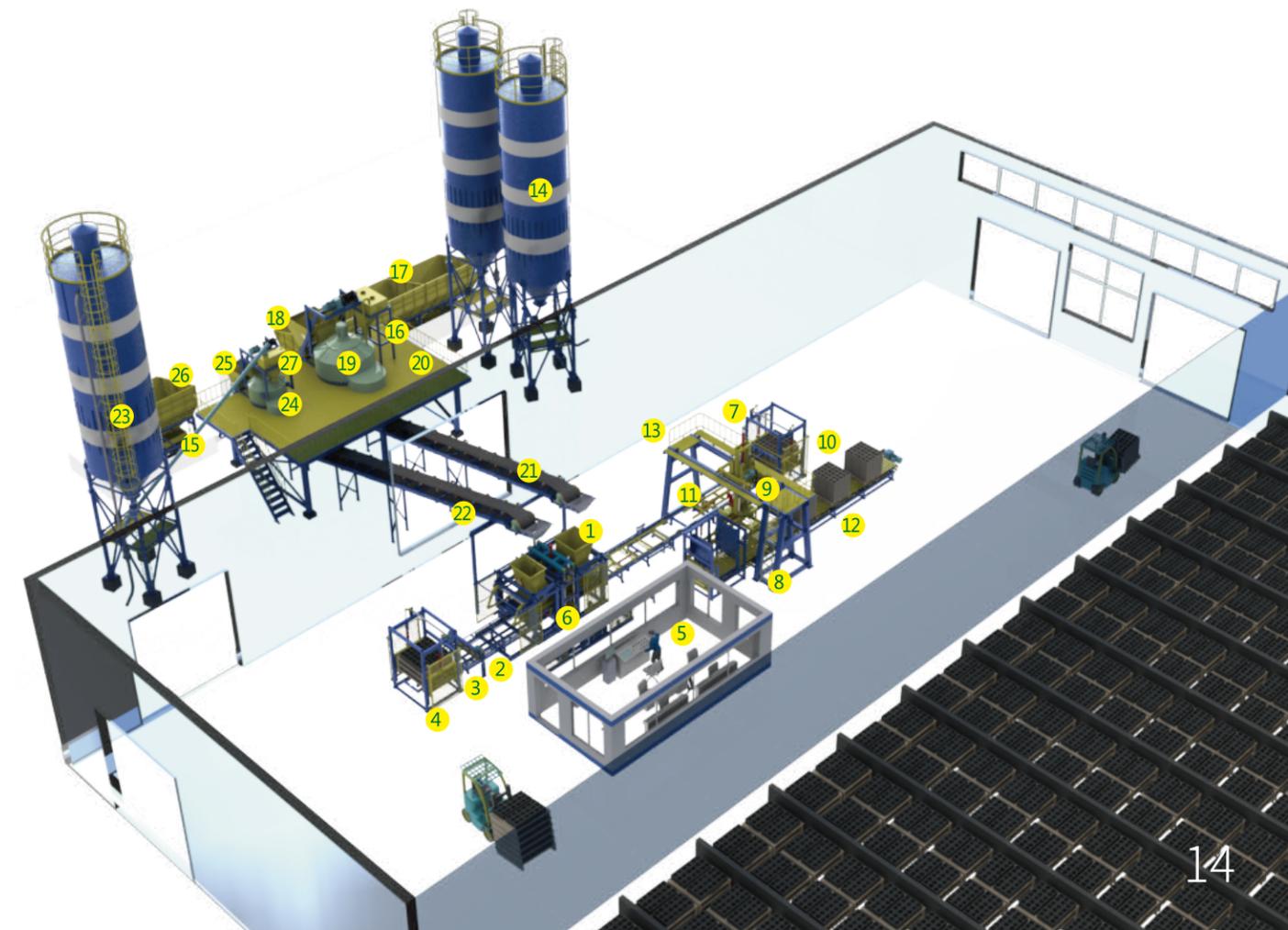
- | | | | | | |
|---|---|--------------------------------------|--|--|---------------------------------|
| 1 Concrete Block Making Machine | 2 Green Block Conveyor | 3 Rotate Brush for Block | 4 Chain Elevator | 5 Finger Car | 6 Chain Lowerator |
| 7 Dry Block Conveyor | 8 Centre Control Room | 9 Pre Cubing Device | 10 Automatic Cuber | 11 Pallet Cleaning Device | 12 Pallet Cross Transfer Device |
| 13 Pallet Turning Device | 14 Pallet Hopper | 15 Product pallet Magazine | 16 Slat Conveyor | 17 Curing Kilns | 18 Transferring Device Inside |
| 19 Wet Concrete Conveying Belt (for Base) | 20 Wet Concrete Conveying Belt (for Face) | 21 Mixer Platform | 22 Planetary Mixer (for Base) | 23 Cement weighing Batchter (for Base) | 24 Planetary Mixer (for Face) |
| 25 Aggregate Batchter (for Face) | 26 Aggregate Batchter (for Base) | 27 Aggregate skip Hoister (for Base) | 28 Cement Silos (for Base) | 29 Cement Silos (for Base) | 30 Cement Screws (for Base) |
| 31 Cement Screws (for Face) | 32 Color Dosing System (for Face) | 33 Pallet-collecting Hopper | 34 Cement Weighing Batchter (for Face) | 35 Aggregate Skip Hoister (for Face) | 36 Atomizing Device |

Integrated Solid Waste Solution Supplier

REIT Fully Automatic Block Production Line Model-B



- | | | | | | |
|--------------------------------------|---------------------------------|---|---|---------------------------------|--------------------------------------|
| 1 Concrete Block Making Machine | 2 Green Block Conveyor | 3 Rotate Brush for Block | 4 Elevator | 5 Center Control Rom | 6 Transferring Device Inside |
| 7 Pallet cleaning Device | 8 Product Pallet Magazine | 9 Slat Conveyor | 10 Lowerator | 11 Dry Block Conveyor | 12 Pre Cubing Device |
| 13 Automatic Cuber | 14 Cement Silo (for Base) | 15 Cement Screws | 16 Cement Weighing Batcher (for Base) | 17 Aggregate Batcher (for Face) | 18 Aggregate Skip Hoister (for Face) |
| 19 Planetary Mixer (for Face) | 20 Mixer Platform | 21 Wet Concrete Conveying Belt (for Base) | 22 Wet Concrete Conveying Belt (for Face) | 23 Cement Silo (for Face) | 24 Planetary Mixer (for Face) |
| 25 Aggregate Skip Hoister (for Face) | 26 Aggregate Batcher (for Face) | 27 Cement Weighing Batcher (for Face) | | | |



► Customized Block Production Line

According to various demands of customers, REIT can design and manufacture special automatic block production line with different handling, cubing and curing system.

Resource Comprehensive Treatment System



Urban Waste Treatment

► Advantage of WDM municipal solid waste disposal

- All closed fully automatic disposal, without odor and people contact.
- High efficiency separation, Short waste processing cycle. Preventing generation of dioxin and leachate.
- Ducing energy for self using and selling.
- Suitable for mixed waste from various cities, with no need for pre-separation.
- Less demand for investment and land.

Solid Waste Utilization



► Building Waste Treatment

Building waste reuse is an idea method for disposal. By using these waste to produce environmental building material such as block and pave, a huge financial and environmental expenditure could be avoided for society.



► Fly Ash, Metal Tailings Utilization

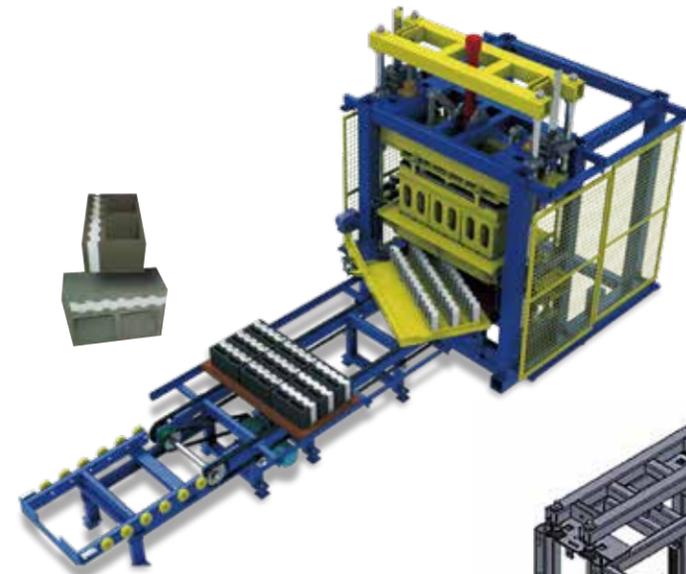
Via cooperating with universities university, REIT provides clients highly efficient solution for using fly ash to produce block, which addition proportion can reach 95%. And REIT also offers clients solution for tailing integrated utilization.



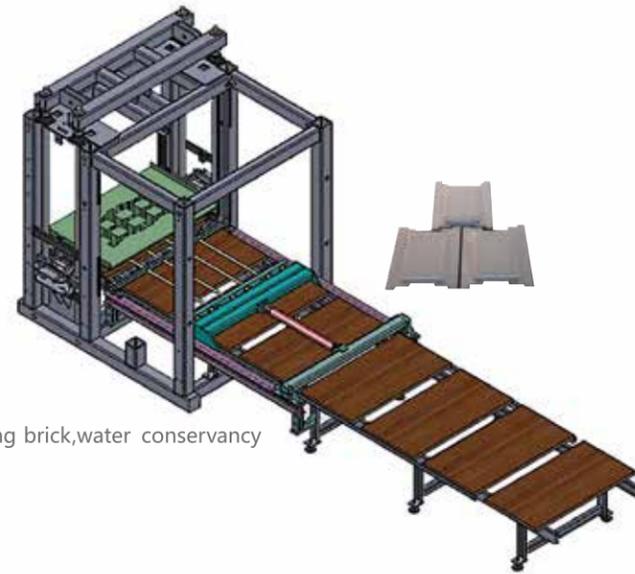
► Metal Recovery for Smelting

REIT's metal recovery equipment takes combination of vibration and press to shape mineral powder into cylindrical, thus meet the requirement of metal smelting.

REIT Special Device



► Automatic Foam Plate Device



► Horizontal Pull Holes Device

Horizontal Pull Holes Device is used for interlocking brick, water conservancy block, slope protection block, special blocks, etc.



► Concrete Block Splitter

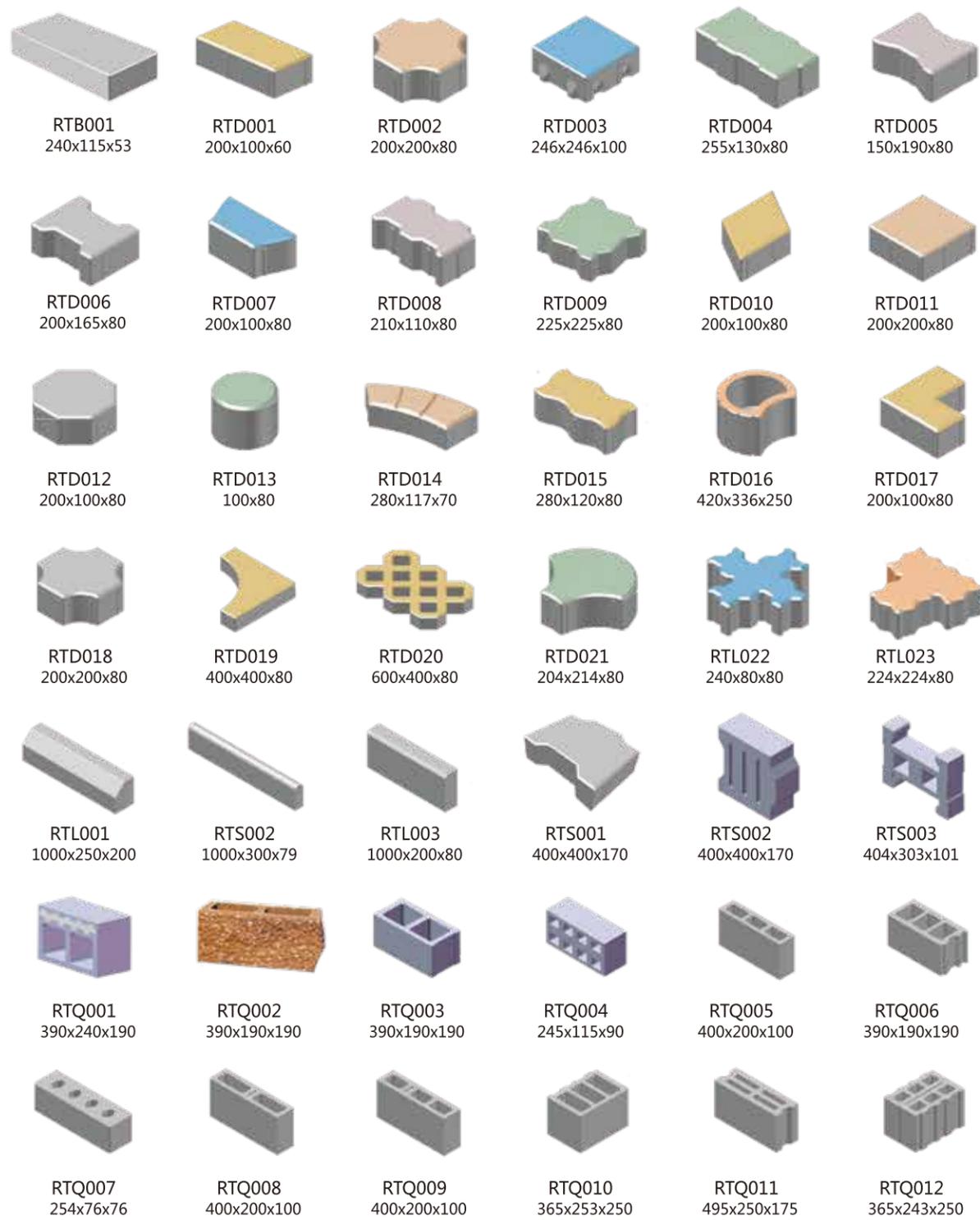
Technical Specification	Technical Parameters
Production Rate	300-400 Piece/Hour
Product Width	600(mm)
Product Height	40-300(mm)

Capacity Table

Product	Capacity	Host Model				
		RTQT6	RTQT9	RTQT12	RTQT15	RTQT18
Paver 200x100x60mm	Piece/Pallet	21	36	44	60	72
	m ² /Hour	76	129	158.4	216	260
	10 ⁴ m ² /Year	36.5	62	76	103.7	125
Multi Hole Brick 240x115x90mm	Piece/Pallet	15	25	36	46	50
	Piece/Hour	3600	6000	8640	11040	12000
	10 ⁴ Piece/Year	1728	2880	4147	5299	5760
Standard Hollow Brick 390x190x190mm	Piece/Pallet	6	9	12	15	18
	Piece/Hour	1200	1800	2400	3000	3600
	10 ⁴ Piece/Year	576	864	1152	1440	1728
Standard Brick 240x115x53mm	Piece/Pallet	30	50	60	85	100
	Piece/Hour	7200	12000	14400	20400	24000
	10 ⁴ Piece/Year	3456	5760	6912	9792	11520
Hydraulic Block	Piece/Pallet	2	4	6	8	10
	Piece/Hour	270	540	830	1080	1350
	10 ⁴ Piece/Year	130	260	399	518	648
Solid Block 400x200x200 (8inch)	Piece/Pallet	6	9	12	15	18
	Piece/Hour	1080	1620	2160	2700	3240
	10 ⁴ Piece/Year	518.4	618.4	1036	1296	1555
Solid Block 400x200x150 (6inch)	Piece/Pallet	8	12	15	18	21
	Piece/Hour	1140	2160	2700	3240	3780
	10 ⁴ Piece/Year	691.2	1036.8	1296	1555.2	1814.4
Solid Block 400x200x100 (4inch)	Piece/Pallet	10	18	24	30	36
	Piece/Hour	1800	3240	4320	5400	6480
	10 ⁴ Piece/Year	864	1555.2	2074	2592	3110.4

Note: The production capacity is calculated. Annual output is based on the condition: 2x8hour/day, 300 days/year.

Brick Type Selection



Applications of Products

► Flowerpot Brick Application ► Application of Wall Brick ► Check The Well Block Application



► Split Block Application

► Water Slope Protection Application



► Application of Municipal Road Brick



Integrated Solid Waste Solution Supplier



Static Brick Making Machine



► Solid Waste Suitable for Static Brick Making Machines



Quartz Stone Tailings

Fluorite Tailings

Tailings Sand



Tailings

Marble Leftover Materials

Iron Ore Tailings Sand



Tailings

Phosphogypsum

Fly Ash



Mountain Sand

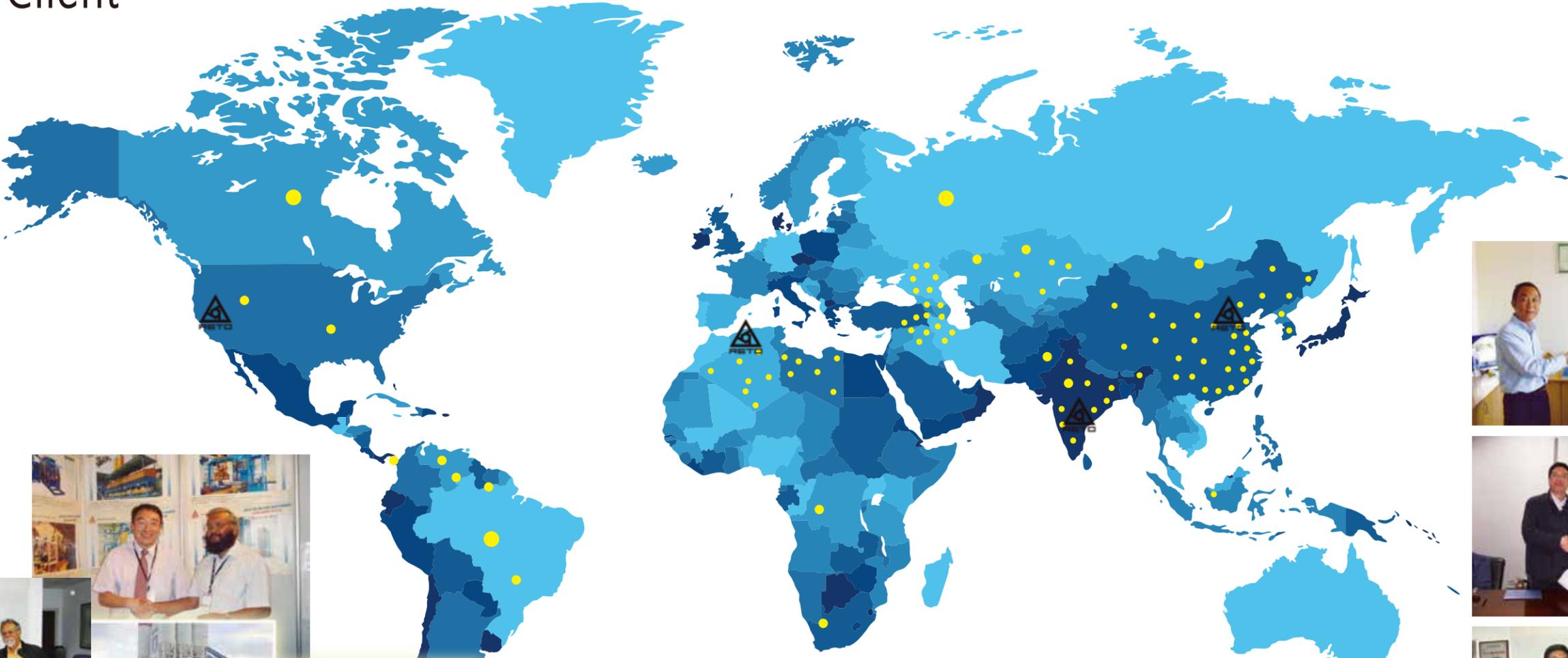
Shale

Demolition

► Static Brick Making Machine

	300T	400T	600T	800T	1000T
Max. Pressure	3300KN	4500KN	6850KN	9150KN	10840KN
Maximum pressure of the hydraulic station	31.5MPA	31.5MPA	31.5MPA	31.5MPA	31.5MPA
Cycle Time	≤20S	≤20S	≤20S	≤20S	≤20S
Main Motor Power	36KW	44KW	55KW	68.5KW	78.5KW
Standard Brick Output	20 pcs / Mold	24 pcs / Mold	30 pcs / Mold	42 pcs / Mold	48 pcs / Mold
Paving Brick Output	12 pcs / Mold	16 pcs / Mold	24 pcs / Mold	8 pcs / Mold	32 pcs / Mold
Paving Brick Output	750x570x25mm	915x570x25mm	1030x720x25mm	960x940x25mm	1100x940x30mm
Hydraulic Valve Brand	Vickers	Vickers	Vickers	Vickers	Vickers
Electrical Control Box	Siemens SIMATIC	Siemens SIMATIC	Siemens SIMATIC	Siemens SIMATIC	Siemens SIMATIC
Main Machine Dimensions	1750x1000x4200mm				
Machine Weight	≈ 14T				

REIT Client



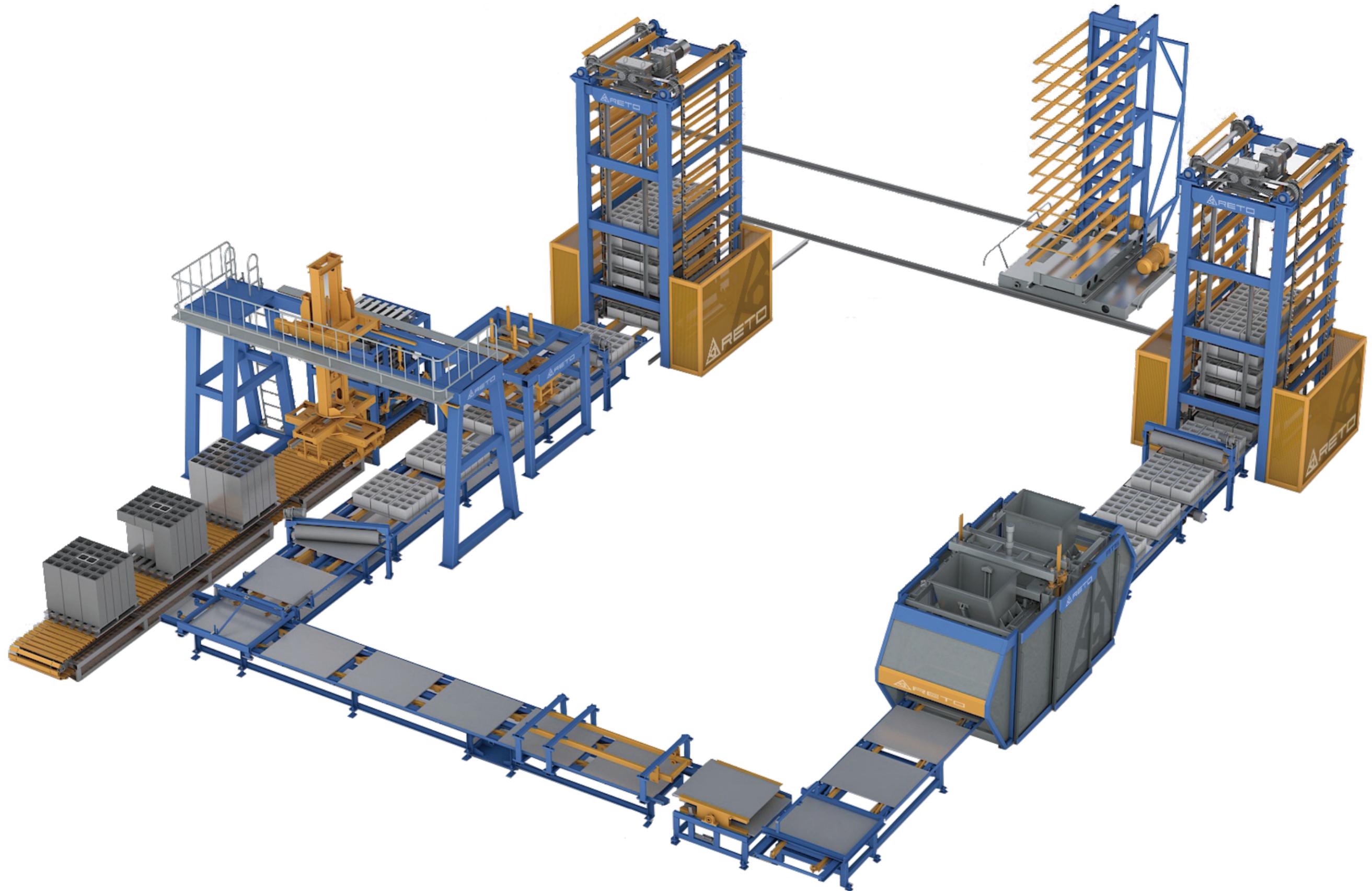
Service and Commitment

REIT promises: one year guarantee, life time service.

REIT believes that service quality is vital for our survival and development: In domestic, REIT is the only block machine supplier who fulfills service engineer travel system, while in international market, REIT has already set up branches in India, Algeria and USA, employs local engineer to provide 7x24hrs convenient service for customers.

Integrated Solid Waste Solution Supplier

Brand new drawing of full production line





Brand new control room



Brand new silo tank



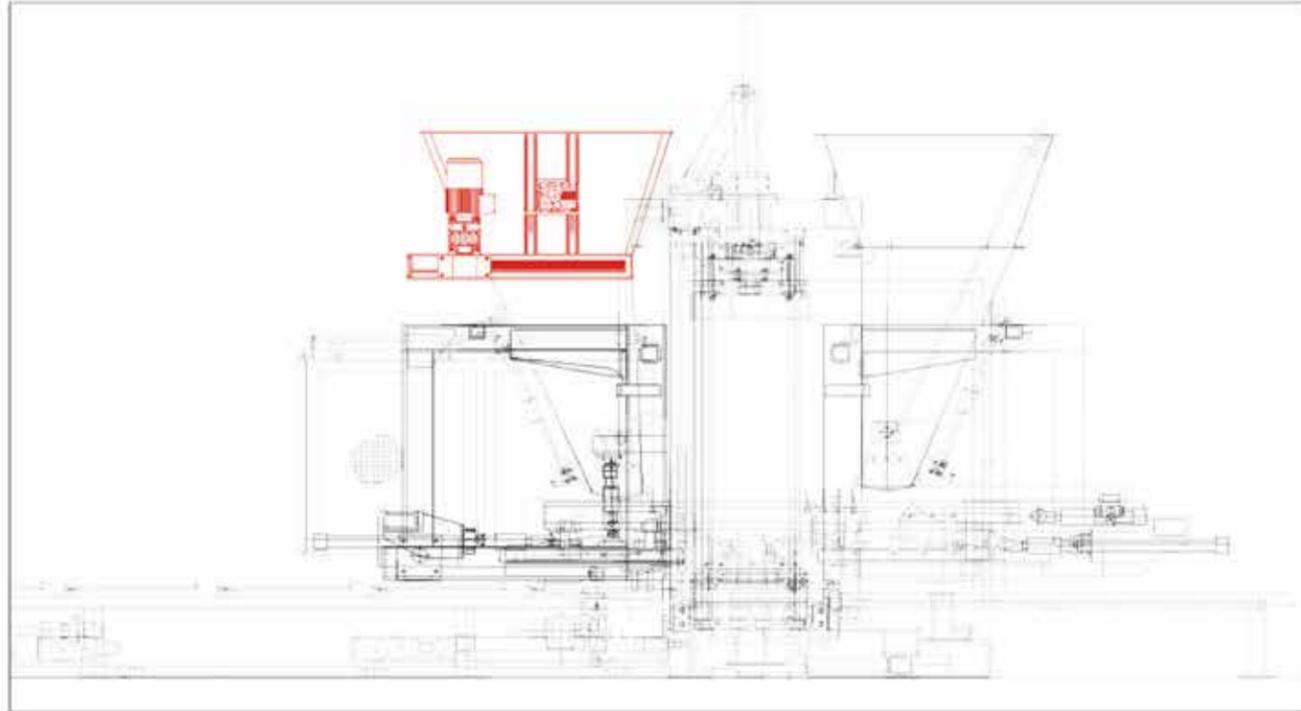
Mould



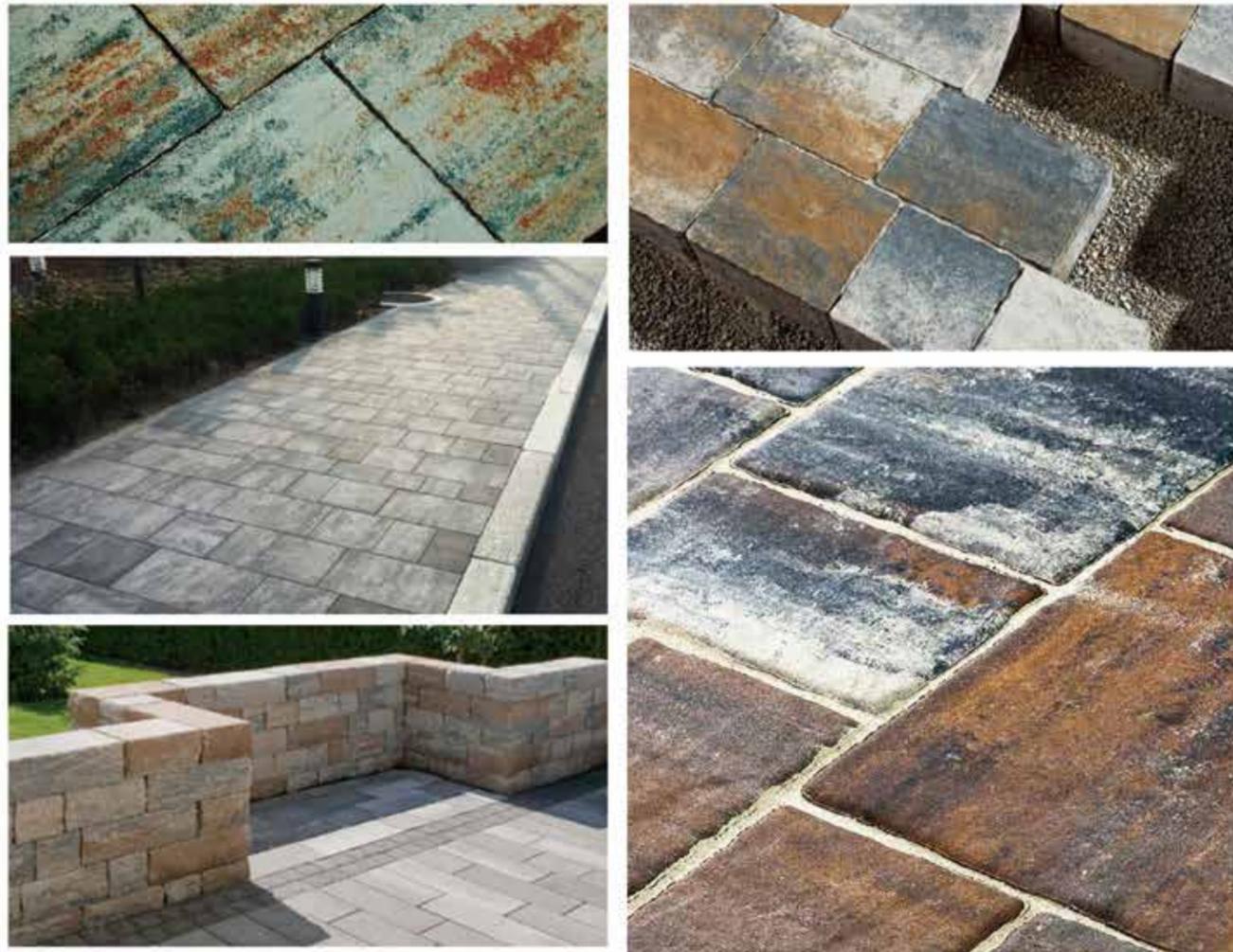
Pressing plate



Pallet



Multi-color



Multi-Color System

In practical paving applications, it breaks away from the plain and direct color mode, achieving a natural color transition and creating diverse decorative effects, full of fresh and natural artistic conception. The system also allows for color mixing of base materials, suitable for splitting equipment, and enables the development of multi-colored split products with high added value.

Multiple colors can be mixed.

Compact structure with high reliability.

Stepless frequency conversion for perfect color mixing.

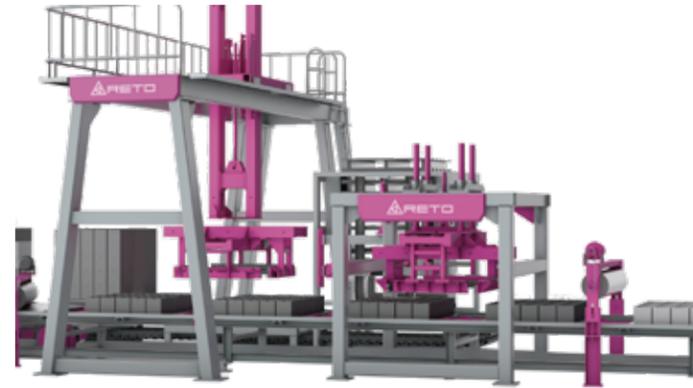
Customized formula design for developing unique style products.

High cost-effectiveness, expanding greater profit margins.

Shaping Your Success

Fresh color scheme and small-scale equipment

Fashionable colors

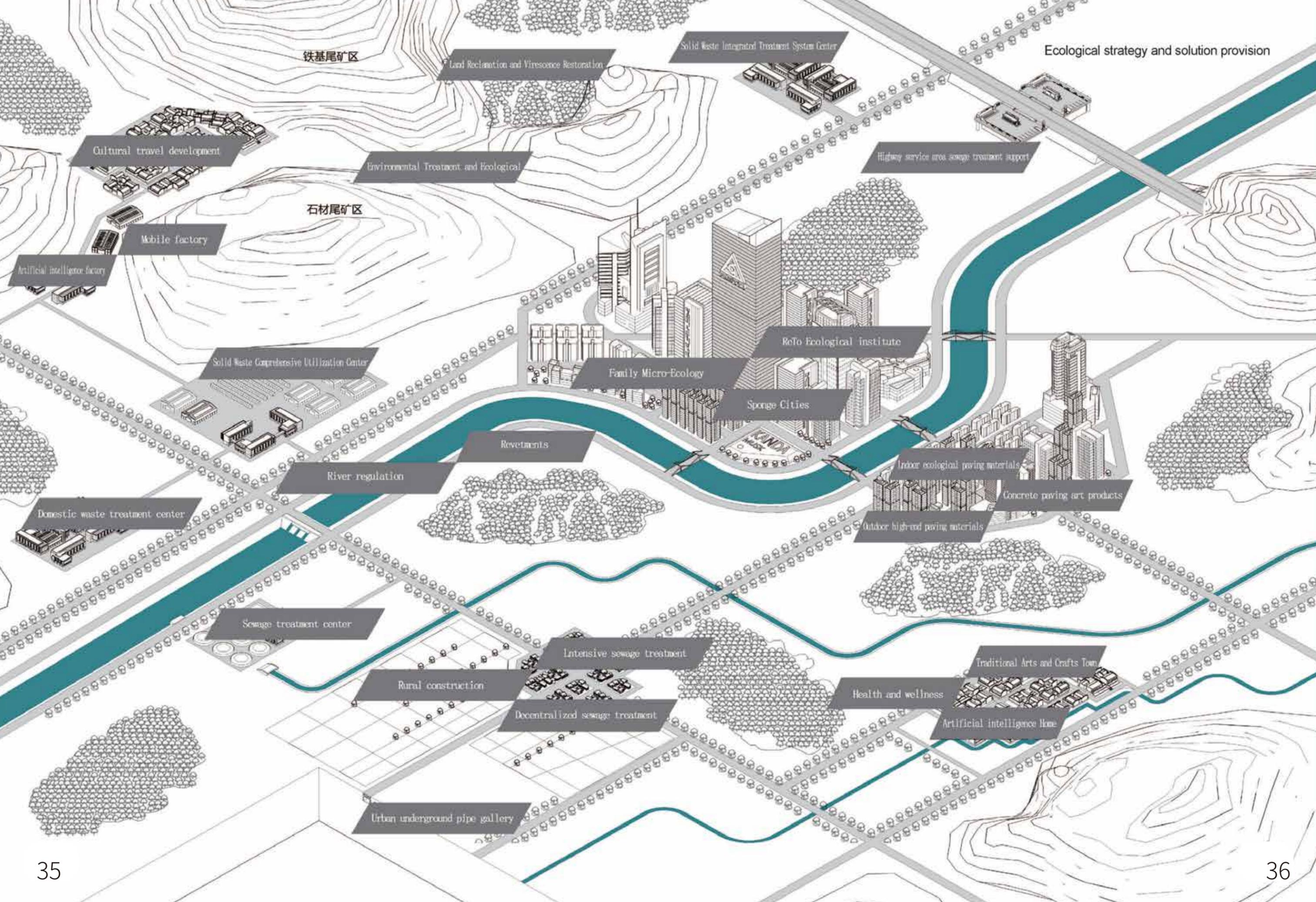


Standard colors



Classical colors





铁基尾矿区

Land Reclamation and Virescence Restoration

Solid Waste Integrated Treatment System Center

Cultural travel development

Environmental Treatment and Ecological

Highway service area sewage treatment support

石材尾矿区

Mobile factory

Artificial intelligence factory

Solid Waste Comprehensive Utilization Center

Family Micro-Ecology

ReTo Ecological Institute

Sponge Cities

Revetments

River regulation

Indoor ecological paving materials

Concrete paving art products

Domestic waste treatment center

Outdoor high-road paving materials

Sewage treatment center

Intensive sewage treatment

Traditional Arts and Crafts Town

Rural construction

Decentralized sewage treatment

Health and wellness

Artificial intelligence line

Urban underground pipe gallery