



Yaxin Intelligent Technology Environmental Protection Co., Ltd

Environmental Protection Priority, Solid Waste Treatment, Social Service
Designer, Manufacturer, Exporter of Clay Brick Plant
Auto Brick Making Machines + Tunnel Kiln



Advanced Technology, Leading Industry, Quality Oriented, Integrity Management

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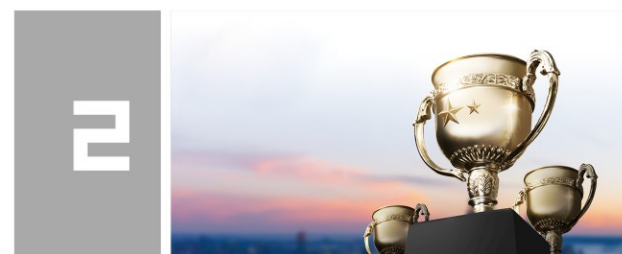
Website: www.yaxinkiln.com

China Henan

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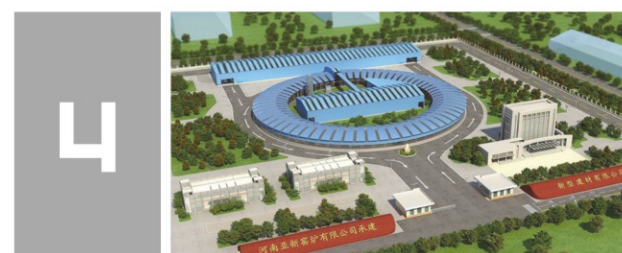
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Honors



Brick and Tile Development



Product Show



Customer Confirmation



Company Culture

Energy Saving · Environment Protection · High Output · Low Consumption



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Yaxin Intelligent Technology Environmental Protection Co., Ltd., shorten as Yaxin Kiln, is a national high-tech enterprise, who is also named as the Vice President Company of China Brick And Tile Association, Vice Chairman Company of China Wall Material Technology Information. As the research center for solid waste treatment in Henan province, Yaxin has get the certification for kiln design, project construction, manufacturing of the clay brick making machines and burning kilns. After years development, Yaxin has developed into an innovative technology enterprise with 60 national invention patents, practical patents, software copyright rights, and 36 key technical indicators of solid waste treatment industry. In 2016, Yaxin Kiln gets the ISO-9001 certification and national certifications for quality, environment and safe management. In 2017, Yaxin participates and drafts the national standard for movable rotary tunnel kiln. In 2018, Yaxin attends the industrial standard drafting for burning kilns, and the national standard editing which is hosted by the General Administration of Quality Supervision, Inspection and Quarantine of China and the National Standardization Administration Commission. While in 2022, as the first leader for the research of technology and machines for solid waste treatment, Yaxin Kiln wins the second prize of Science and Technology Progress Award in Henan.

In recent years, Yaxin Kiln enhances the investment for the research and innovation, taking the green development as the enterprise develop philosophy and setup two production lines for the solid waste treatment, total investment around 120 million RMB. One line is using rotary kiln design, the other one use prefabricated tunnel kiln design.



These two plants are mainly for the processing of construction waste, agriculture waste, household waste, municipal sludge, river sludge, industrial tailing, etc. All experience and technology applied in these two projects will be promoted among the whole industry.

Yaxin Kin has powerful and experienced teams to fulfill the research task, machine manufacturing, installation, marketing, quality control and after-sales service, etc. Till the end of 2019, the team has developed and composed of 8 technical chief engineers, 32 senior engineers, more than 60 technical personnel, and more than 1000 construction and installation engineers. Among those people, here are total 11 staff as full-time doctors and external technical consultants. This elite team is the core development power of Yaxin company, they improve the comprehensive strength of research, technology upgrade, innovation and development.

In the past 15 years, Yaxin Kiln adheres to the mission of environmental protection priority, solid waste treatment and serving society, and actively responses to the new developing policy and builds up solid waste comprehensive processing production lines in more than 20 provinces. Yaxin's design and products are wildly welcomed by the international customers, such as Vietnam, Cambodia, Uzbekistan, Kazakhstan, Zimbabwe, etc. Following the Belt and Road policy, Yaxin takes full advantages of the research, manufacturing, application and service to create on-stop service, achieve DCS electrical control system and industrial Robot system. Our aims are to draw more capital into the solid waste treatment industry, improve the processing and utilization capacity of solid waste, and serves whole world customers.

DEVELOPMENT >>>



2006

Minsheng designed and built the first tunnel kiln with 3.3m kiln section. One Dryer and One Burner in Shangqiu city.

2007

Minsheng invented and built tunnel kiln with 2.8m, 3.3m, and 3.6m section. Dryer and Burner in one line.

2008

Minsheng headquarter moves to industry zone of Shangqiu, as the development requirements.

2009

Register as Yaxin Kiln, Appoint Liu Qinfeng as Chairman.

2010

Start business by Yaxin, and earned good market reputation.

2011

Start the research and study of rotary tunnel kiln.

2012

Build technical research team for the design and upgrade of rotary kiln. Improve the design of air flue, chimney, driving parts, etc.

2013

First rotary kiln with 10.8m section in Hunan; Second project with 13.8m kiln section in Yunnan. Two projects are successfully fired and production.

2014

Follow the policy of environment protection and save energy, Yaxin invents the negative pressure design, separate smoke and air.

2015

No blowers on top of rotary kiln, desulfur tower blowers can help brick drying and burning, which solves the technical difficulties of industry.

2016

First rotary kiln without blowers on top of kiln, using the desulfur tower to help brick drying and burning, with negative pressure, no air leakage, project located in Hebei; This line was open to all visitors and experts and gets the confirmation of all; Henan Shunyi Company registered.

2017

Start the research of prefabricated tunnel kiln, obtain 12 national patents. Get national certifications for quality, environment, safe management; Register the new company for Subcontracting of construction services.

2018

Start the research of two, three or more kiln car combined tunnel kiln; The new factory with such design was built in Shanxi; made the first industry standard for the rotary tunnel kilns.

2019

Register one electrical automation company; participate the standard editing for prefabricated tunnel kilns; attend national standard draft organized by General Administration of Quality Supervision, Inspection and Quarantine of China and the National Standardization Administration commission

2020

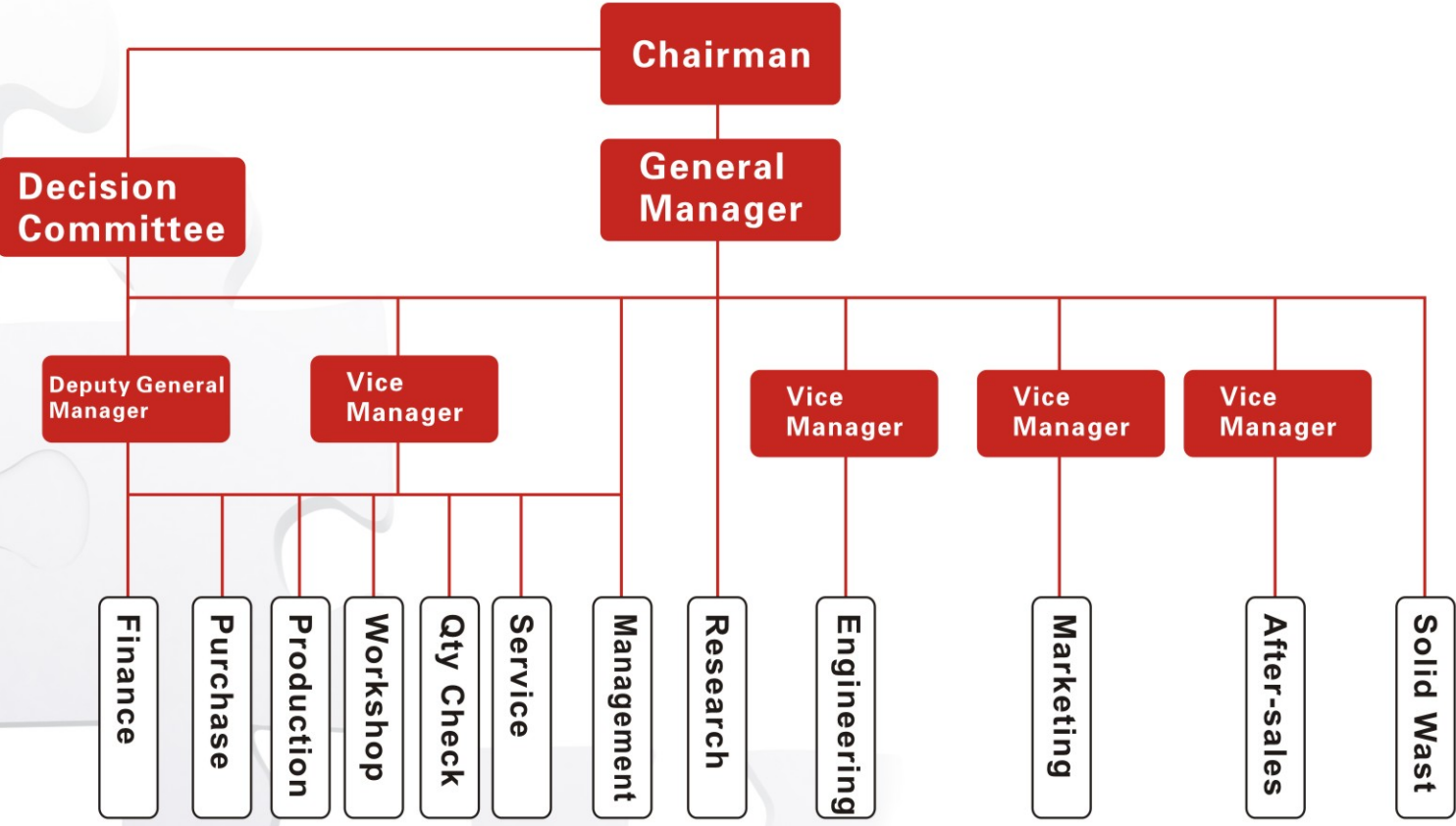
To improve the intelligence of machinery and kiln, Yaxin invest around 120 million RMB to set up two brick plants; Yaxin Intelligent Technology Environment Protection Co., Ltd was registered; made the first industry standard for the multi-sectional tunnel kilns.

2021

In order to improve the research power, Yaxin sign the cooperation agreement with North China University of Water Resources and Electric Power. Organize labor union, make 5-year develop plan.

2022

Green material machinery circular industry zone is chosen as key construction project by government; as the first leader for the research of technology and machines for solid waste treatment, Yaxin Kiln wins the second prize of Science and Technology Progress Award in Henan.



HONORS & CERTIFICATION > > >

> National Certificates



> Industry Honors



TECHNOLOGY PATENTS > > >



NATIONAL INDUSTRY STANDARD >>>

First National Enterprise Standard for Mobile, Energy-saving Rotary Kiln announced on the website of National Standards Management Committee.

Enterprise standard of Q/HYX 01--2018 Mobile energy-saving tunnel kiln was drafted by Yaxin Kiln, confirmed by experts and recorded by Henan standards department. At present, the standard has been published on the website of National Standards Management Committee and implemented officially in 2018. This standard is the first enterprise standard for the refractory building materials with mobile rotary tunnel kiln, which gives the official standard for rotary kiln design and quality. The standard also list out all details for movable rotary tunnel kiln, from raw materials purchase, manufacturing, assemble, commissioning etc. Meanwhile, the building material manufacturers can utilize this standard to find reliable and qualified kiln suppliers.

When editing the Q/HYX 01--2018 standard, Yaxin Kiln referred 25 national standards and drafted in accordance with the standard rules given by national GB/T 1.1-2009. This standard specifies the terms and definitions, classification, technical requirements, inspection method, inspection rules, quality assessment, marking and labeling, packaging, transportation, storage of movable rotary tunnel kilns. This standard is applicable to produce ordinary bricks, porous bricks, hollow bricks, decorative bricks, hollow blocks and other sintering products, which is burnt at temperature below 1200°C.

In the July of 2022, Yaxin signs a strategic cooperation agreement with China Building Materials Research Institute, to promote research of intelligent manufacturing machinery and solid waste treatment technology.

Yaxin Kiln Co., Ltd
2018-10

Industry Standard

◎Participate in the national and industry standards editing.

Yaxin Kiln participates the enterprise, industry and national standards of Movable Rotary Tunnel Kilns, Movable Rotary Tunnel Kiln For Wall Materials, Energy-saving Multi-section Tunnel Kiln, Prefabricated Tunnel Kilns, Auto Unloading and Packing Machines, Auto Packing System for Brick Industry, Technical Specification for Air Pollution Treatment Facilities of Sintered Brick and Tile Industry.

In 2019, Yaxin was invited for the national standard draft of Measurement and Calculation Methods of Thermal Balance and Thermal Efficiency, which is organized by State General Administration of Quality Supervision, Inspection and Quarantine and Standardization Administration.



"HIGH CONSENSUS, STRONG COOPERATION" >>> TO CREATE A NEW BENCHMARK FOR THE INDUSTRY



Yaxin signs the agreement with North China University of Water Resources and Electric Power, and sets up enterprise-university-research base.



In the July of 2022, Yaxin signs a strategic cooperation agreement with China Building Materials Research Institute, to promote the research of intelligent manufacturing machinery and solid waste treatment.

Cooperation Between Yaxin and Well-known University

华北水利水电大学 河南亚新窑炉有限公司 产学研创新基地	睢县亚新智能科技环保有限公司 华北水利水电大学 产学研共建基地	河南理工大学 河南亚新窑炉有限公司 产学研创新基地
贵州省建筑材料科学研究设计院有限责任公司 河南亚新窑炉有限公司 产学研创新基地	睢县亚新智能科技环保有限公司 河南格林同创绿色科技发展研究院有限公司 产学研共建基地	河南格林同创绿色科技发展研究院有限公司 河南亚新窑炉有限公司 产学研创新基地

Company Honors

BRICK AND TILE DEVELOPMENT >>>

Ancient Sintered Bricks

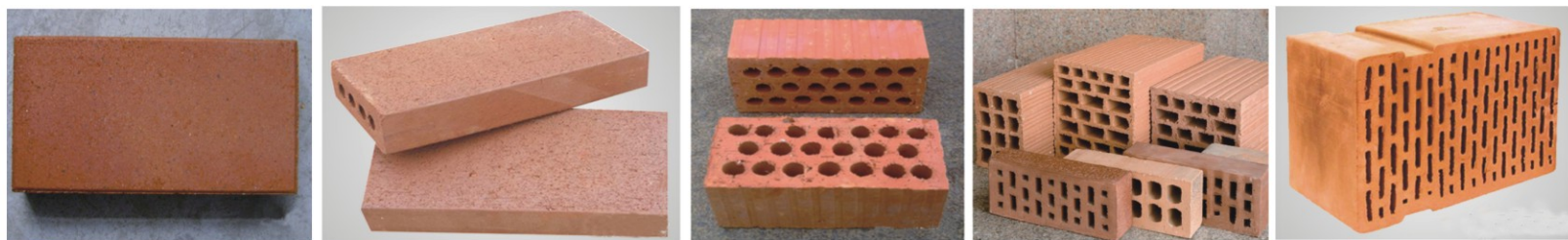


Fired Clay used for the ancient architecture, around 5000-7000 years ago
Fired Adobe found in Suzhou and Hangzhou region, belongs to Liangzhou culture period.



China's first brick (unearthed at the Lantian Xinjie Site in Xi'an, about 5300~5500 years ago)
Large tile and hollow bricks (blocks) of the Qin Dynasty

Modern Fired Bricks



Standard Solid Brick Road Brick Perforated brick Hollow Brick Thermal Block

Imitative Ancient Blue Bricks and Tiles



Decoration Blue Brick Eaves Carving Bricks Carving Tiles Blue Tiles

APPLICATION OF SOLID WASTE DISPOSAL IN SINTERED BRICKS AND TILES UNDER THE BACKGROUND OF "DOUBLE CARBON" >>>



◎ Solid Waste Used for Raw Materials

Main solid waste materials can be urban construction waste, slurry, coal gangue, fly ash, tailings and all kinds of sludge, etc.



◎ Finished Fired Bricks

60% ~ 80% of solid waste are the construction residue and foundation pile mud for clay brick production. The condition and quality of the solid waste has direct effect to the quality of finished bricks. Parts of solid waste in the good condition can be used to make decoration bricks, road bricks, roof tiles, brick carving products and functional products. Common solid waste are used to make the inner-wall construction bricks.



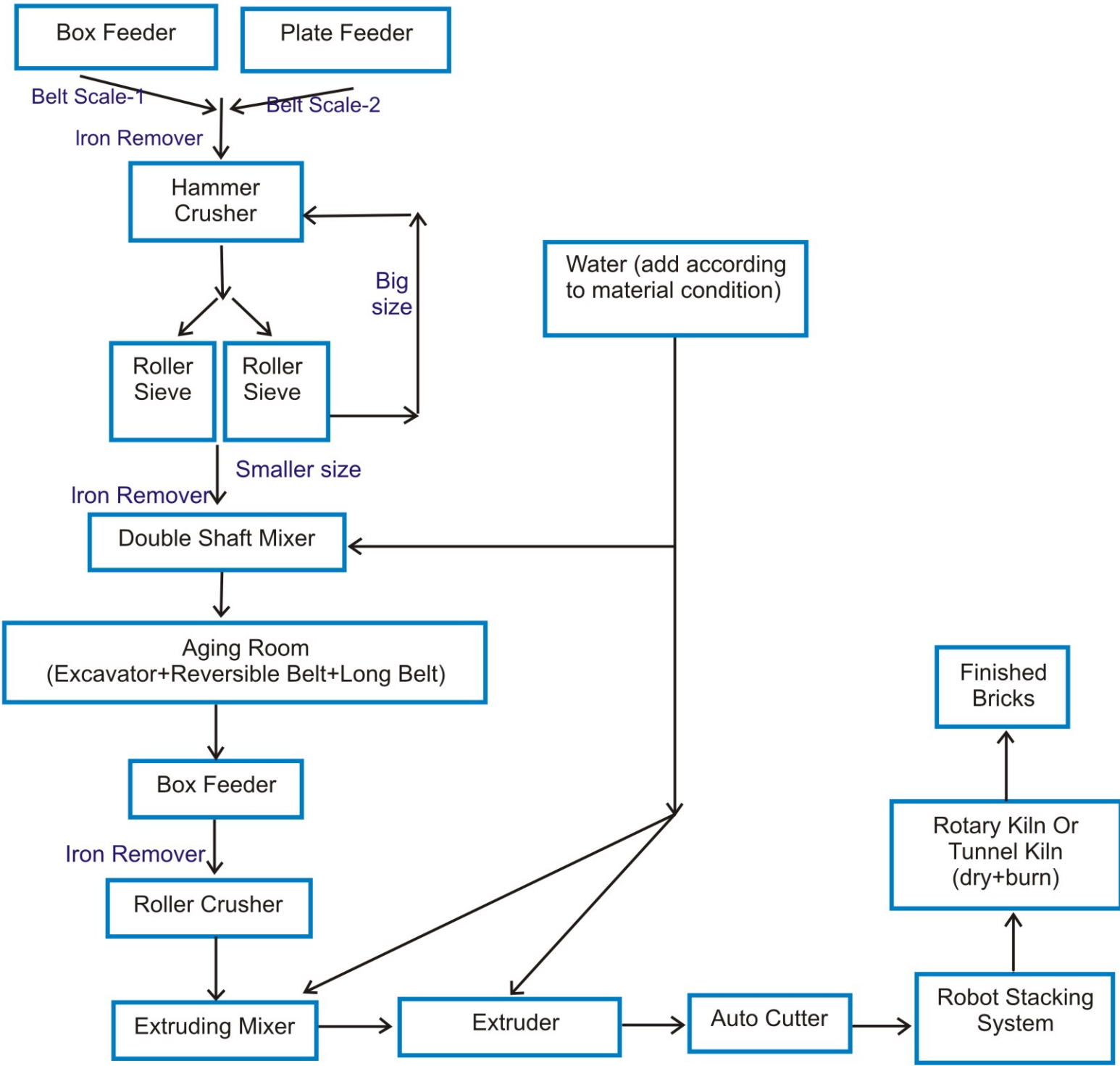
Solid waste such as construction residue, slurry, coal gangue, fly ash, tailings and all kinds of sludge have a huge impact on the quality of products, and some of them in good quality can produce high-quality products, such as decorative bricks, road bricks, roof tiles, brick carving products and functional products.



BRICK PLANT DESIGN LAYOUT DRAWING >>>



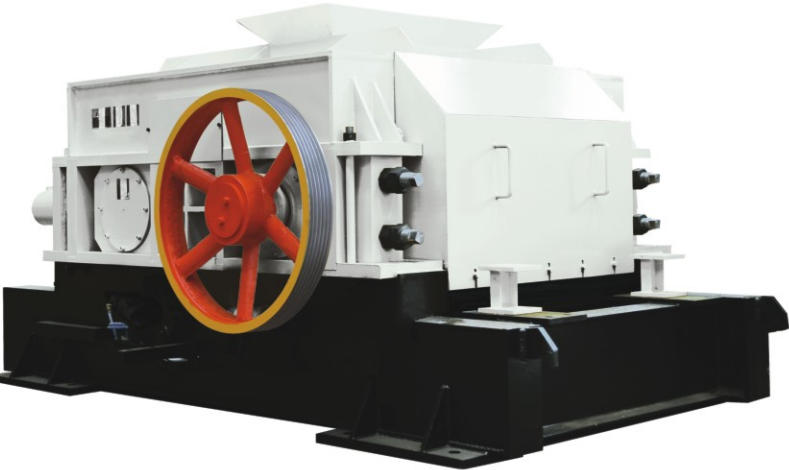
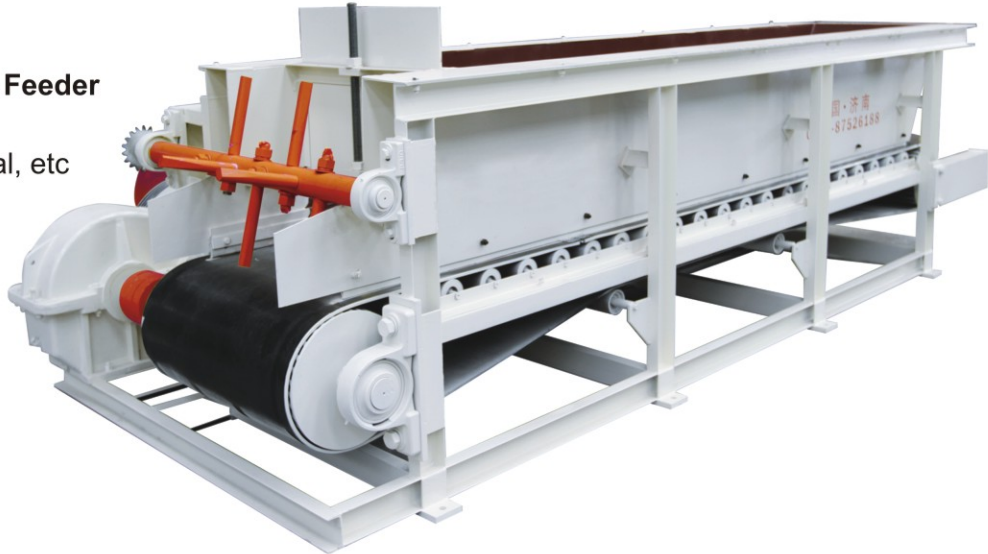
BRICK PLANT WORKING PROCEDURE >>>



BRICK MAKING MACHINES >>>

Material Feeding Machine--Box Feeder or Plate Feeder

Raw Materials: clay, shale, coal gangue, slurry, coal, etc
Function: to supply the raw materials
Difference: Box Feeder for soft materials
 Plate Feeder for hard materials
Model: GD65 GD80 Gd100
 GL65 GL80 GI100
Capacity: 9-100 m3/hr
Power: 4kw 5.5kw 7.5kw 11kw



Material Crushing Machine--Hammer Crusher or Roller Crusher

Raw Materials: clay, shale, coal gangue, slurry, coal, etc
Function: to crush raw materials into smaller size
Difference: Hammer Crusher for shale and big size materials
 Roller Crusher for clay and small size materials
Model: PC800 PC1000 PC1100 etc
 GS80 GS100 GS1100 etc
Capacity: 15-80 T/hr
Finished Size: 50-100mm 2-5mm
Power: 55kw 75kw 90kw 132kw

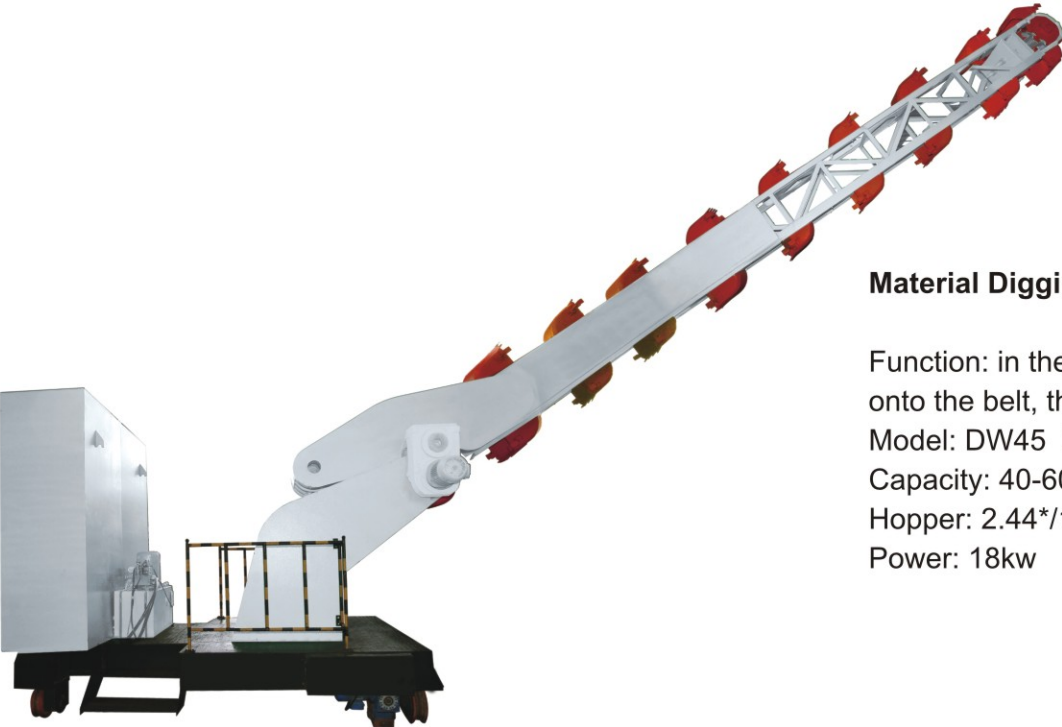
Material Sieving Machine--Roller Sieve

Function: to separate big size materials and return back to crusher
Model: Dia.2m Dia.2.5m Dia.3m
Length: 5m, 6m
Sieve Size: 3mm
Capacity: 20-60 m3/hr
Power: 5.5kw 7.5kw 11kw 18kw



Material Mixing Machine--Double Shaft Mixer

Function: to mix raw materials and water together
Model: SJ400 SJ360*42 SJ360*52
 SJJ360*42 SJJ360*52
Capacity: 25-80 m3/hr
Power: 75kw 110kw 132kw 160kw



Material Digging Machine--Excavator

Function: in the aging room, to dig processed materials onto the belt, then transported to the next machine
Model: DW45 Dw50
Capacity: 40-60 m3/hr
Hopper: 2.44*/10-2 M3
Power: 18kw

Mud Extruding Machine--Double Stage Vacuum Extruder

Function: to extrude the mud strip out at the vacuum condition
Model: JKY50 JKY55 JKY60 JKY70 JKY75
 JKZ90 JKZ100 JKZ120
Capacity: 10000-50000 bricks/hr
Power: 75+132kw 90+185kw 110+200kw 160+315kw
 200+400kw
Brick Size: 240*115*53mm 250*120*90mm
Vacuum Degree: -0.092MPa
Allowed Pressure: 4.0
With vacuum pump, air compressor, working platform



BRICK MAKING MACHINES >>>

Brick Cutting Machine--Auto Brick Cutter

Function: to cut the mud strip into the pieces of bricks in required size
Model: ZQPQ 27 ZQPQ30 ZQPQ 36 ZQPQ48
Capacity: strip cutter: 20 strips per minute
 brick cutter: 20000-60000 bricks per hour
Gas Source: bigger than 0.6Mpa
Power: 14-22kw
Brick Size: 240*115*53mm 250*120*90mm others can be customized
With electrical control cabinet

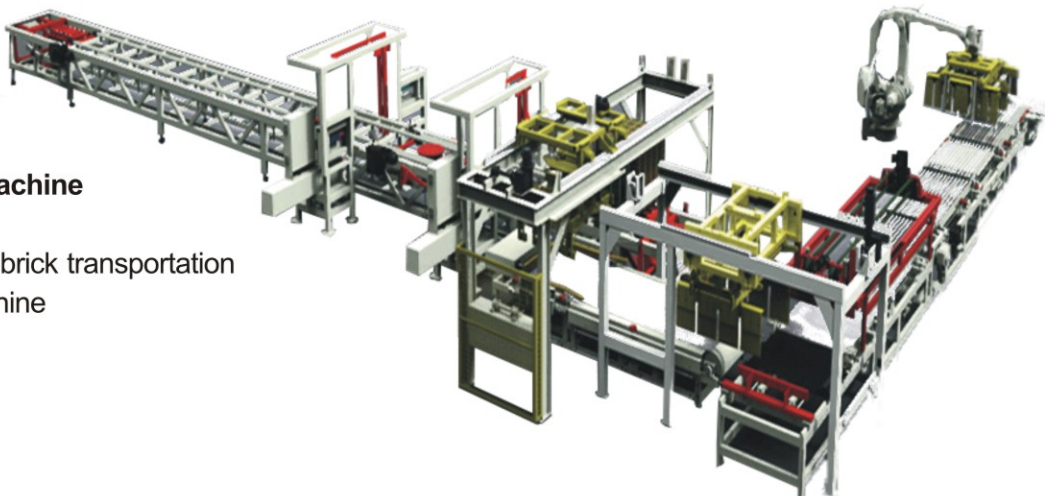


Brick Stacking Machine—Auto Robot Stacker

Function: to stack the bricks on the kiln car or drying cart
Model: RB500 RB800
Robot: import from Japan, Yaskawa
Clamping Head: customized as brick size
Capacity: 10000-30000 bricks per hour
Gas Resource: 0.8MPa
Power: 50kw 55kw 16.5kw
With electrical control cabinet

Brick Packing Machine--Auto Brick Packing Machine

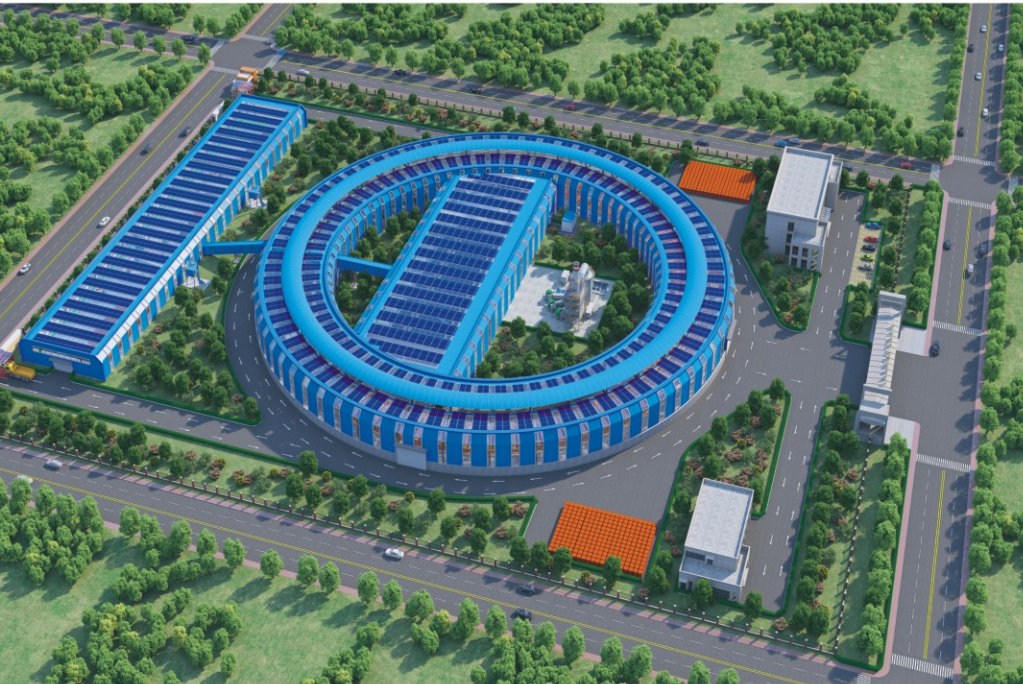
Function: to pack finished bricks in piled, easy for brick transportation
Model: Semi-packing machine, Auto-packing machine
Capacity: 100000-200000 bricks per day
Power: 30-150kw
Design: as customer brick factory condition



BRICK BURNING TUNNEL KILNS >>>



When the green adobes are gotten, it is time to consider how to dry and burn the green adobes. As the traditional brick factory operation, the green adobes will be dried under the sun, then burnt in the Zigzag Kiln or in the Hoffman kilns. Yaxin, devoting to the research of fully automatic clay brick production, provides advanced design for brick drying and burning, they are movable rotary tunnel kiln, prefabricated tunnel kilns, roller kilns, etc. Here we gonna to share the detailed discussion for these advanced kilns.



Movable Rotary Tunnel Kiln

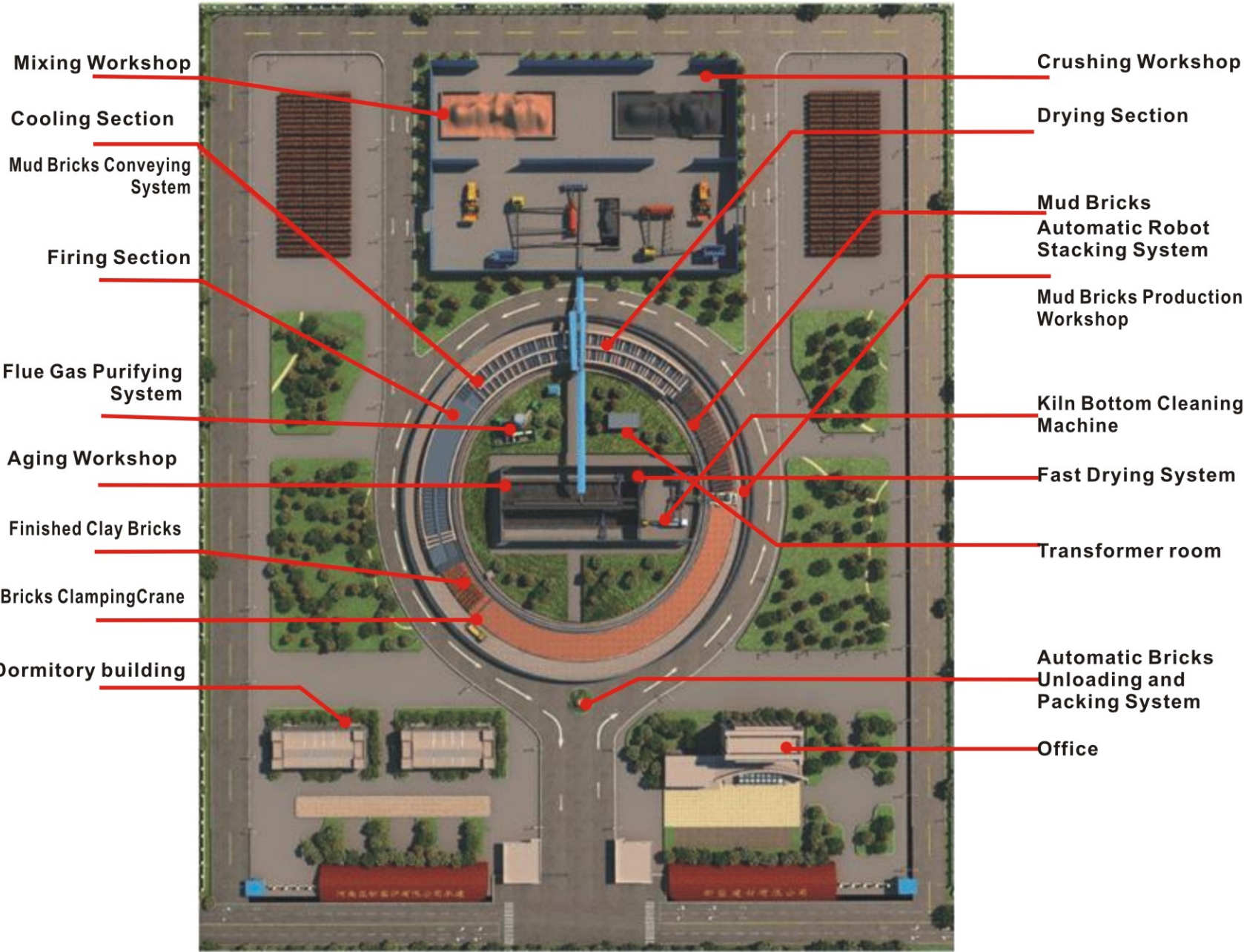
- suitable for different raw materials
- various types of finished bricks
- higher output, lower failure rate
- save energy, no pollution
- coal, natural gas as burning fuel
- no need kilns cars, pushers or ferry cars; lower maintenance cost
- land area: 30000-50000M2
- kiln top without blowers to ensure the stable kiln movement
- fully automatic for whole production line
- easy management and production

Prefabricated Tunnel Kiln

- suitable for different raw materials, especially workable for the solid waste treatment
- various types of finished bricks
- higher output, lower failure rate
- save energy, no pollution
- coal, natural gas as burning fuel
- need kilns cars, pushers and ferry cars;
- land area: 20000-30000M2
- short construction period
- fully automatic for whole production line
- easy management and production



EFFECT DRAWING OF MOVABLE ROTARY TUNNEL KILN >>>



CHARACTERISTICS OF MOVABLE ROTARY TUNNEL KILN >>>



◎Kiln Top without Blowers

"A new structure of energy-saving, environmental protection, high-yield, low-consumption mobile tunnel kiln", Yaxin rotary kilns without blowers on the top of the kiln. Two centrifugal blowers are installed on the ground, and two cut-off doors are set at the entrance of the drying chamber, so that the smoke will not enter the workshop and pollute the working environment: kiln and desulfur tower use the same blowers, providing simple and smooth air path, stable working performance and easy maintenance. The air volume required for the drying and burning for green adobes is completely supplied by the desulfur tower blowers. Such design can ensure the stable working performance, no vibration generated during working process, also prolong the service life of rotary kilns. Under normal working condition, no need to conduct huge range of maintenance for kin body within 10 years; no need to conduct huge range of maintenance for refractory materials within 5 years.



◎Kiln Body without Big Power Machines

The high-power blowers are not installed on the top of the kiln, which greatly reduces the current of the sliding wires and improves service life and safety of the sliding wire system. It also reduces production and operation costs for enterprises, further improves the production safety.



CHARACTERISTICS OF MOVABLE ROTARY TUNNEL KILN >>>

◎Circular Chimney Seamless Connection

The connection between the annular flue and the drying section (chamber) is sealed at the movable condition. There are three ways for users to choose.

1. Ring slot ring sliding cover

The upper mouth of the annular flue is a fully open with annular slot-shaped opening. The annular opening of the flue is in contact with the sliding cover plate fixed on the movable kiln body. There is a sealing skin installed on the annular sliding cover plate for controlling the opening of the pipeline, and the sealing skin fits the annular opening of the flat annular flue under negative pressure to meet the requirements of dynamic sealing.

2. The ring groove hole and movable cover plate

The upper mouth of the annular flue is not fully open. There are a series of smoke exhaust holes at equal distances related to each intake and discharge distance of the kiln body. The smoke exhaust holes are covered with reversible covers with sealing skins. The sealing skin fits the exhaust hole under negative pressure to meet the requirements of dynamic sealing. Between the tidal outlet of the drying section of the kiln and the annular flue, there is an arc-shaped trough-type sliding cover covering multiple smoke exhaust holes, so that the multiple smoke exhaust holes covered by the annular flue are connected with the tidal outlet of the drying section. The arc-shaped trough-type sliding cover plate has a sealing skin, and the sealing skin fits the side edge of the covered smoke exhaust hole under negative pressure to meet the requirements of dynamic sealing.

3. Ring groove hole and sliding cover

The upper mouth of the annular flue is not fully open. There are a series of equidistant smoke exhaust holes related to each intake and exhaust distance of the kiln body. The smoke exhaust holes are covered with a sliding cover with a sealing skin. After closing, the sealing skin fits the upper edge of the exhaust hole under negative pressure to meet the requirements of dynamic sealing. Between the tidal outlet of the drying section of the kiln and



◎Intelligent Burning

Bricks stay on the ground, while kiln moves to finished the drying and burning. This design integrates mechanization, automation and intelligence, and has realized automatic roasting and intelligent walking of the kiln body. Rotary burning kilns are wildly used in China and whole world, and been well praised by users.

The intelligent burning system automatically reads and calculates the temperature, humidity, pressure and other sensor signals collected by each acquisition module of the kiln. By adjusting the frequency converter, the air volume and related burning data can be efficiently controlled, then the air, bricks, and burning can reach a perfect balance, to ensure the higher working efficiency and lower down the consumption of inner burning fuel.



◎Workable for Natural Gas

The usage of natural gas is a solution for brick manufacturers in the area that the coal is forbidden to use. Also the natural gas is necessary burning fuel for face brick production. First, using natural gas can reduce emissions and meet environmental protection standards. Second, it can realize automatic control of the sintering temperature and overcome the sticking problem during burning process. Which will be easier for automatic grouping and packing machines.



◎Dual-support Adjustable Device

This design can ensure that the kiln body runs smoothly and reliably, without broken shafts and rail gnawing. The driving wheel adopts an elastic pressurizing and stabilizing device to ensure the stable force for each driving wheel, will not happen slipping problems.



CHARACTERISTICS OF MOVABLE ROTARY TUNNEL KILN >>>

◎ Inner and Outer Wall Design for Workshop

Inner and Outer Wall design overcomes the adverse effects of wind, frost, rain, snow and low temperature on the operation of fired clay bricks, and improves the labor working environment. According to different latitude and temperature zone, Yaxin utilized the scientific design to short or extend the kiln working time to ensure the designed capacity can be reached. Such kind of workshop designs has been applied in the coldest zone of China.



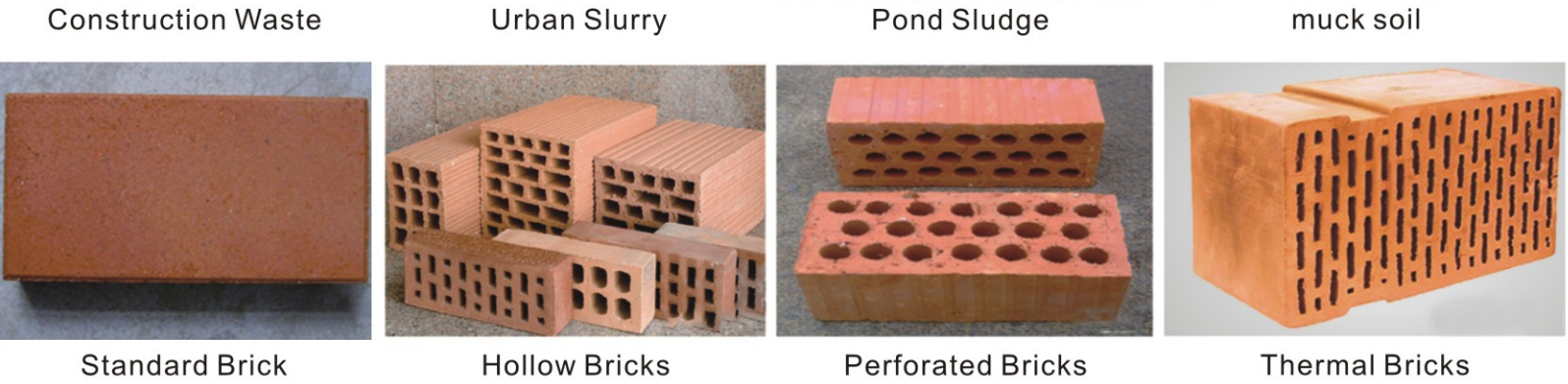
◎ Less Investment, Short Construction Period and Lower Running Cost

The energy-saving, environment-friendly, high-yield, low-consumption movable tunnel kiln with a new structure, and featured with less investment, short construction period, reliable quality, high production efficiency, low maintenance cost, high production, energy saving, environmental protection and high degree of automation.



◎ Wide Range of Raw Materials

The movable rotary kilns are available for raw materials of solid waste, urban slurry, river sludge, muck soil, all kinds of solid waste and industrial tailings, etc. Finished bricks can be solid bricks, hollow bricks, perforated bricks, thermal keeping bricks, etc.



◎ Improve the market competitiveness

Yaxin rotary kilns, with patent design, can achieve the annual power consumption reduced by 50%, compared with other brand rotary kilns in the brick and tile industry in China. The coal consumption can be reduced by 30%, the output can be increased by 30%, and the operating cost is the lowest. It has greatly improved the market competitiveness of wall material enterprises.



MOVABLE TUNNEL KILN WORKING PROCESS >>>



Box Feeder



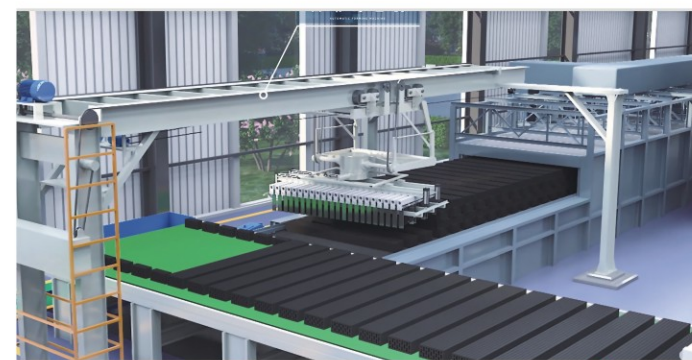
Cursher



Mixer



Aging Workshop



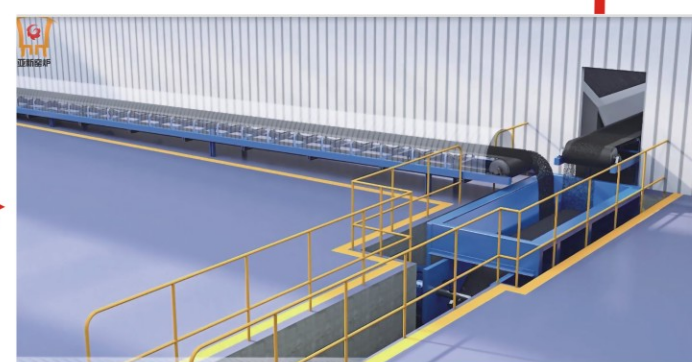
Stack onto fast drying kiln



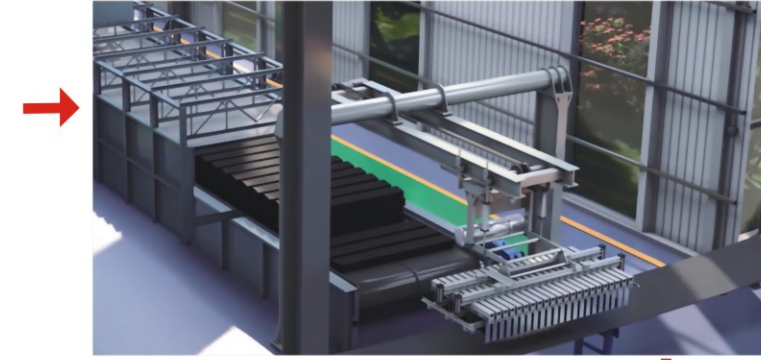
Brick Cutter



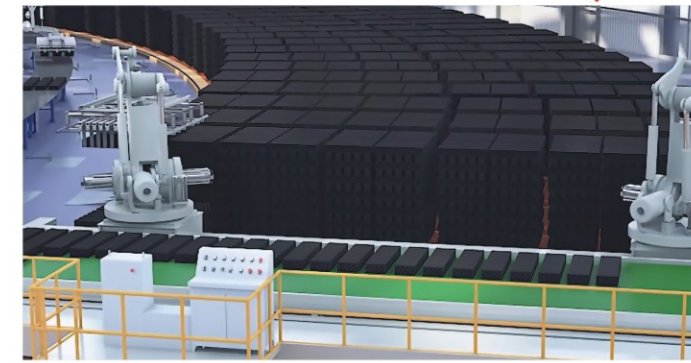
Extruder



To Brick Forming Workshop



To the circular Belt



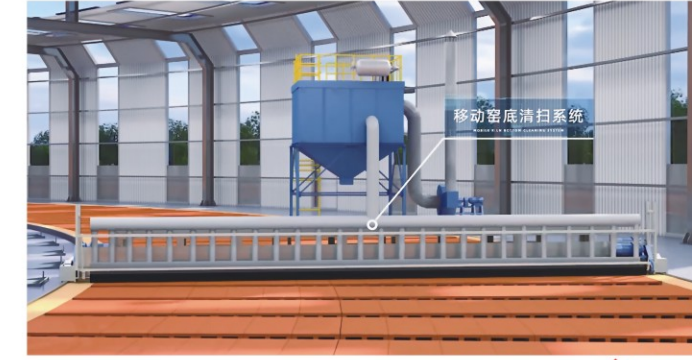
Robot Stacking



Kiln Moves for drying and burning



Monitor Room On Top of Kiln



Bottom Cleaning Car



Brick Packing Machines



Finsihed bricks to the Truck



Smoke Cleaning and Desulfur Tower

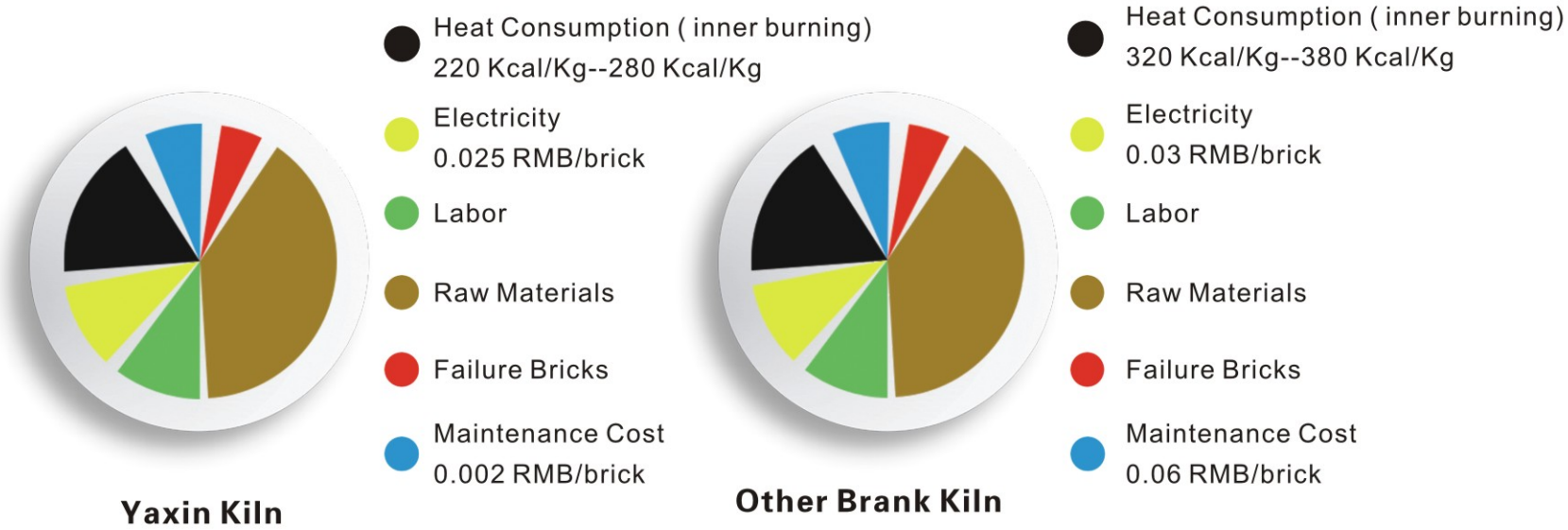
ENERGY CONSUMPTION COMPARISON
WITH OTHER BRAND ROTARY KILN >>>

Yaxin 10.8m Rotary Kiln Configuration				
Kiln	Blower	90KW	2 Set	180KW
Total	180KW			

Movable Motors for Yaxin Kiln need one minute for every movement, everyday will move 16 times, so working time could be 16 minutes per day. Circular belt and desulfur blowers need to run in 24 hours. Compared with other brand kilns, can save 50% electricity.

Other Brand Rotary Kiln—Two-cut-off Gate				
Kiln	Air Sending Fan	55KW	2SET	110KW
	Moisture Fan	37KW	2SET	74KW
	Desulfur Fan	90KW	2SET	180KW
Total	364KW			

Other Brand Rotary Kiln -Three-cut-off Gate				
Kiln	Air Sending Fan	55KW×2 37KW×2	4SET	184KW
	Moisture Fan	37KW	4SET	148KW
	Desulfur Fan	75KW	2SET	150KW
Total	482KW			



Yaxin kiln can save 100Kcal/kg, if one brick is 2.5kg, then can save 100 Kcal/kg x2.5kg = 250 Kcal,
One year produce 100 million bricks,then one year can save 25 billion Kcal;
If coal gangue with 800Kcal heating value, price is 70RMB/ton, then one year can save = 70RMB/Ton÷800Kcal÷1000×25 billion Kcal = 2187500 RMB.

PROJECT PRESENTATION >>>

©YULIN IN SHANXI, CHINA



Project: Shanxi Environment Protection Co., Ltd
Location: Yulin, Shanxi, China
Kiln Section: 12.98m
Kiln Capacity: 400000-500000 bricks per day
Material: solid coal gangue

Shaanxi Huironghe Energy Environmental Protection Technology Co., Ltd. , with daily capacity 3 million tons/year, solid waste and construction waste as raw materials.
The project was established in 2021 with a registered capital of 30 million RMB. Based on the concept of "green water and green mountains are golden mountains and silver mountains", the company invested 250 million RMB to build a new 3 million tons/year brick factory, mineral solid waste, coal gangue and construction solid waste are used as raw materials, located in the energy town of Yulin, Shanxi, China, and covers an area of about 340 Acres, with a building area of about 100,119 square meters. This project use the world-leading technology and machinery in the wall building material industry. Norw yearly capacity is 3 million tons of materials, about 500 million bricks per year. It benefits the local people and is the largest solid waste treatment project in the northwest area.
The project adopts two sets of energy-saving, environmentally friendly, low-consumption rotary tunnel kilns and prefabricated tunnel kiln technical equipment, and two sets of caustic soda-free compression molding technical equipment. The main feature of its technology is that in the same kiln section in China, it can save 60% of electric power consumption, 40% of coal consumption, 40% of product output, and save 0.04-0.05 RMB per brick, which can improve the marketing competitiveness of wall material enterprises.
During the operation, the average annual operating income is about 80 million yuan, and the tax payment is 3.5 million yuan, which will play a positive role in increasing local fiscal revenue and promoting local social economy and environment-friendly development. While producing economic benefits, it can also produce good social and environmental benefits, create new business cards and new highlights for urban industrial transformation, and enhance the image of the government, which meets the overall requirements of my country's construction of "circular econom

PROJECT PRESENTATION >>>

©Zhang Jiakou, China



Yixing Building Materials Co., Ltd. is located in Zhangjiakou, Hebei Province. It was originally a state-owned brick factory with Hoffman Kiln, then restructured with rotary tunnel kiln. After the investigation of company technical power, design and quality, construction quality, after-sales service, etc. Yaxin Kiln was confirmed as the final supplier for the rotary tunnel kiln project in 2017. Kiln with 12.8m section, whole kiln shed use the masonry structure, equipped with convenient trucks route and ventilation and lighting windows. The solar photovoltaic power generation panel installed on the top of the workshop, the utilization of new clean energy, the waste water circulation system installed at the bottom of the kiln, the heated hot water transferred to the entire production workshop, office and living areas, to solve the heating problem in the severe winter, especially in the northern cold area. The good operation of Yixing Building Materials Co., Ltd. provides powerful evidence for northern material enterprises that Rotary Kiln can work in the cold temperature area.

PROJECT PRESENTATION >>>

©Dakang, China



The project, constructed by Yaxin Kiln in 2020, with a planned area of 34440m² and a workshop area of 16000m². The project is located in Dakangzhai Village, Xiangfu District, Kaifeng City. Remove the old Hoffman Kiln, then set up the the new rotary tunnel kiln with 16.8m kiln section. The aging room, brick forming workshop and desulfur workshop are designed inside of the rotary kiln. Daily material processing capacity is 1500Tons, around 500000-600000 bricks per day.

PROJECT PRESENTATION >>>

©Jiahe Tianhua, Ordos, Inner Mongolia

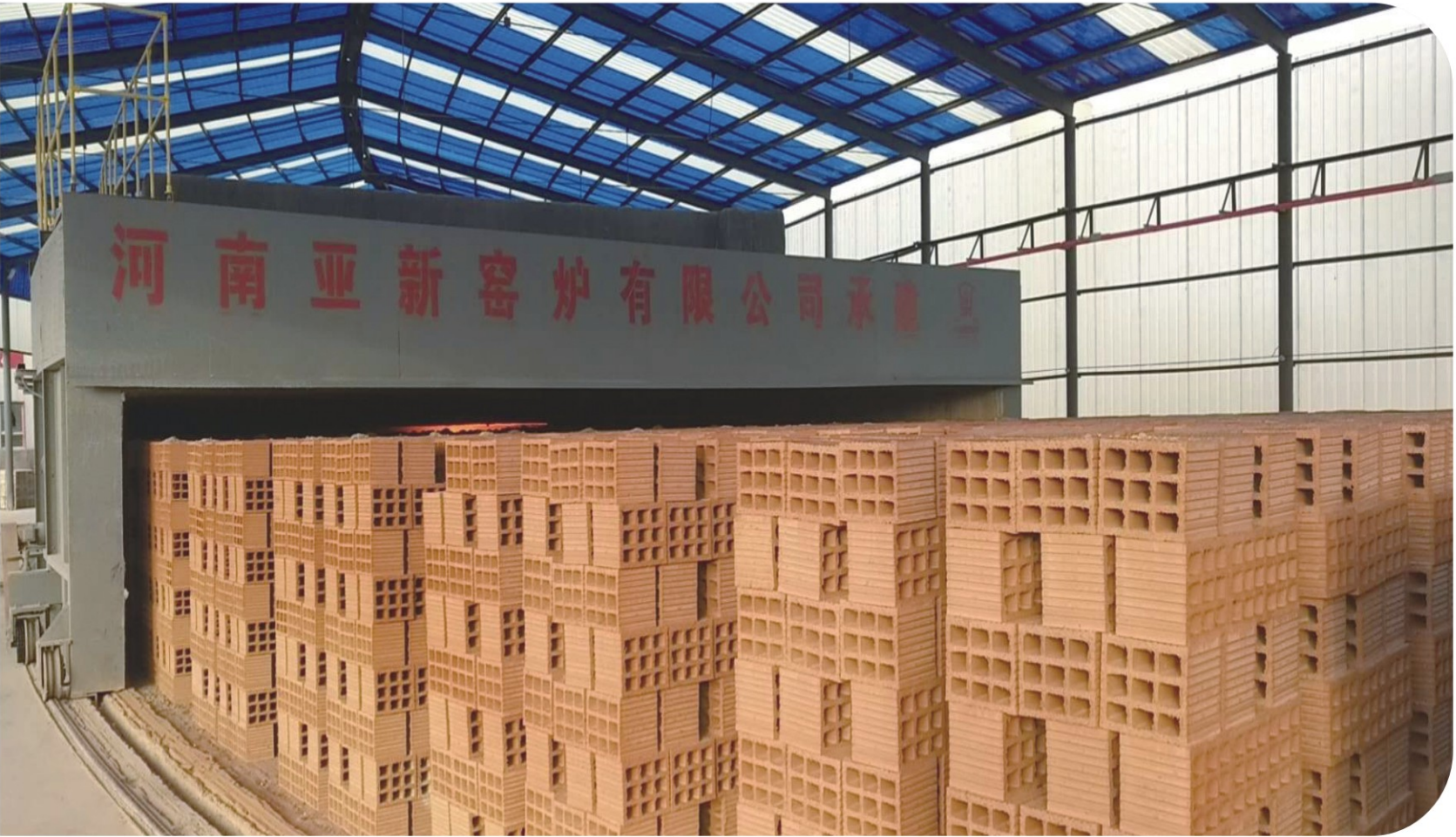


Project Name: Mongolia Jia He Tian Hua Co., Ltd
Location: Ansu town, Etoke Front Banner, Erdos City, Inner Mongolia
Kiln Section: 11.2m
Kiln Capacity: 300000 bricks/day
Raw Materials: Water-based cuttings



PROJECT PRESENTATION >>>

©Aksu



Project: Aksu Dingsheng New Building Materials Co., Ltd
Location: Aksu, Xinjiang
Kiln Section: 12.98m
Kiln Capacity: 400000-500000 bricks /day
Materials: shale, coal gangue, construction waste

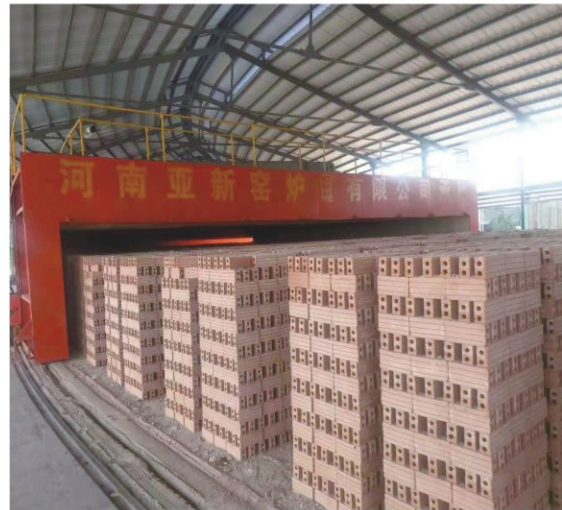


PROJECT PRESENTATION >>>

©Uzbekistan



Project: Uzbekistan Rotary Kiln
Location: Tashkent
Kiln Section: 12.98m
Kiln Capacity: 800000 bricks /day
Materials: mountain earth, coal gangue



Project: Huang Gui Brick Factory
Location: Huang Gui, Vietnam
Kiln Section: 11.8m
Kiln Capacity: 400000-500000 bricks /day
Materials: shale, river sludge, construction

©Huang Gui,Vietnam

PROJECT PRESENTATION >>>

©Quang Binh, Vietnam



Project: Quang Binh, Brick Factory
Location: Quang Binh, Vietnam
Kiln Section: 11.8m
Kiln Capacity: 400000-500000 bricks /day
Materials: shale, river sludge, construction waste, industrial tailings

The project is located in Quang Binh, Vietnam. Previously adopts the natural drying and tunnel kiln. After one year investigation, Yaxin kiln was chosen as final supplier for the 12.98m rotary kiln, with capacity of 400000-500000 bricks per day. The whole project successfully started the production in 2017, with higher output, lower energy consumption. The good operation of the project has laid a foundation for Yaxin's market development in Vietnam, and it is also a milestone for Yaxin's market development. Since then, Yaxin has opened the door to the Vietnamese market.

In 2018, Vietnam Yellow River Group and Yaxin signed a 11.8m rotary kiln contract. Vietnam Yellow River Group, located in Quang Binh City, Vietnam, is a large-scale group integrating ceramics, real estate, sintered brick factories and other industries. It has great influence in the local market. Before cooperation with Yaxin, Yellow River Group had one old rotary kiln, but running condition not good.

After the inspection and comparison, Yaxin kiln was chosen as the project supplier. Til now, the fourth rotary kiln project is under discussion with Yellow River Group.

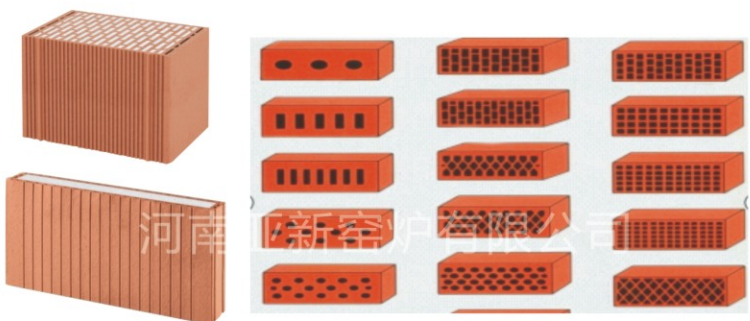


ADVANTAGES OF LARGE CROSS-SECTION MULTI-TYPE ENERGY-SAVING TUNNEL KILN >>>



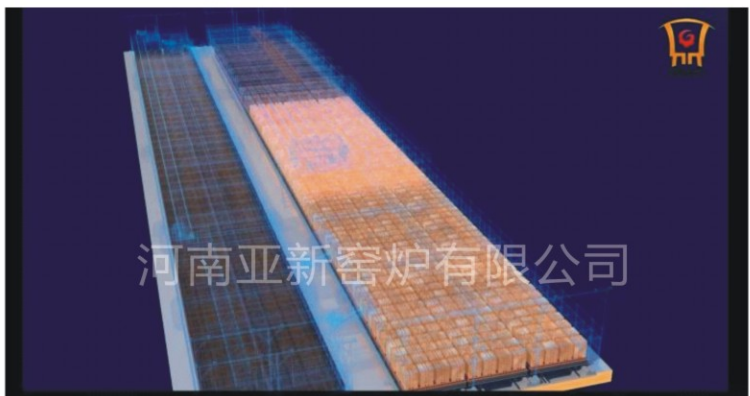
◆Features No.1

Available for raw materials of construction waste, solid waste, river sludge, construction residues, industrial tailings. Finished bricks can be solid bricks, hollow bricks, perforated bricks, and thermal bricks, etc.



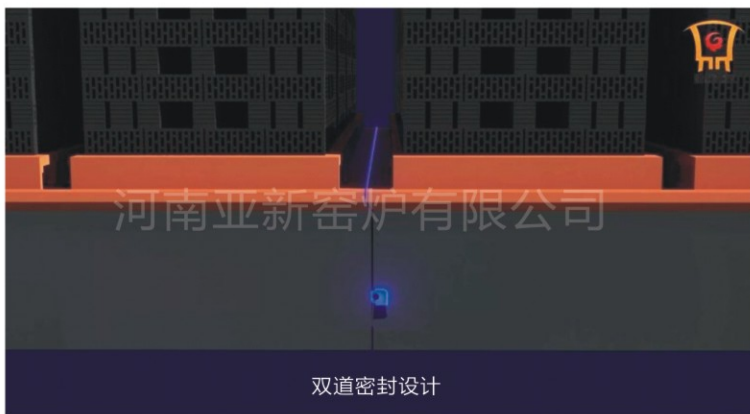
◆Features No.2

Large section kiln can ensure the yield, reduce the fire speed and ensure quality. Heat value for burning can be reduced, greatly lower energy consumption of products, appropriate extension of burning time, and solve the problem of black bricks, and adhesion issue between finished bricks.



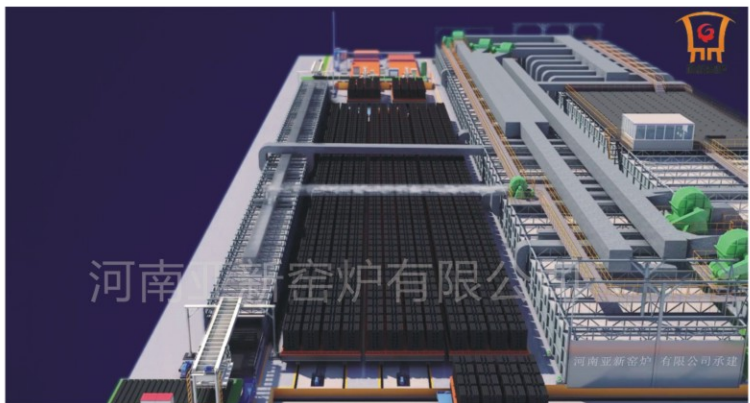
◆Features No.3

Energy saving: multi-sided kiln walls are omitted, reducing heat consumption of each side kiln wall by 8%, and the same output can reduce heat consumption by 30% compared with a single tunnel kiln. The operation is stable and reliable.



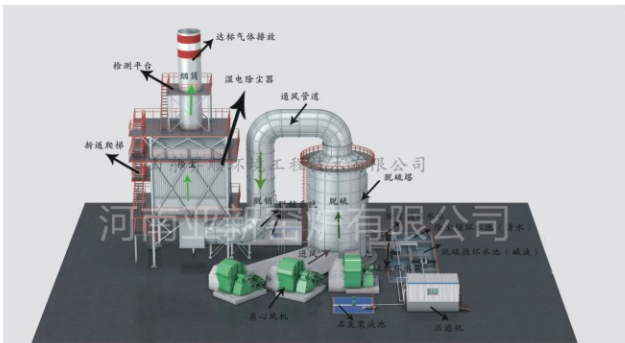
◆Features No.4

The new fast drying system is adopted to solve the problem of production and production of high moisture-content materials such as mud, urban sludge, building residue, and industrial tail mines. Especially in the production of sintering hollow blocks, it can replace the secondary number of burn on the shelves. System, reduce investment costs.



◆Features No.5

Environmental protection: The gas discharged from the low-temperature preheating section and high-temperature drying section of the dryer is reused in the cooling section of the burner kiln. And the moisture discharged from the constant-speed drying section is sent to the smoke desulfur system, reduce the sulfur and oxygen content of the exhaust gas,



◆Features No.6

It solves the problems of heavy operation of the original large-section kiln cars. The higher degree of automation and digital roasting control reduce the influence of human factors, reduce the calorific value and labor costs, and ensure high quality and product qualification rate.



◆Features No.7

The large-scale of workshop is used to ensure the sufficient space, whole kiln body utilizes full-steel structure to ensure the durability and reducer the maintenance cost. Short construction period, rapid return of investment.

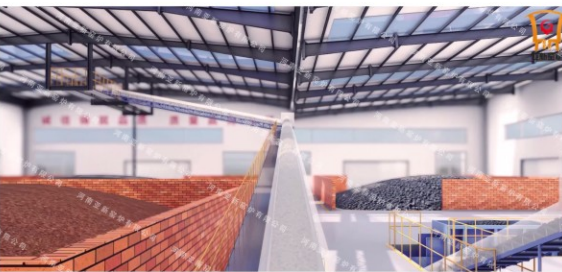


◆Features No.8

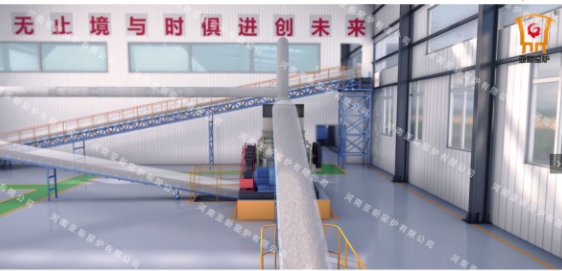
High degree of automation and intelligence: The application of 5G technology and the central control room ensures that the kiln realizes automatic digital roasting, controls the firing speed of roasting, meets the needs of fully automatic brick unloading and packaging in the later period, and realizes the automatic and intelligent operation of the whole plant production.



ADVANTAGES OF LARGE CROSS-SECTION MULTI-TYPE ENERGY-SAVING TUNNEL KILN > > >



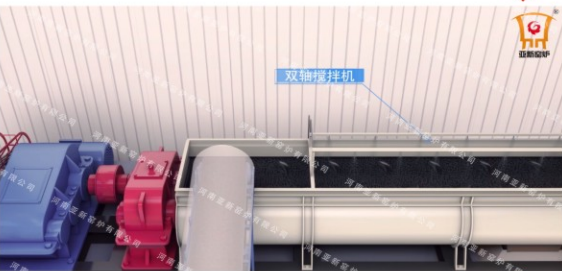
Raw Materials



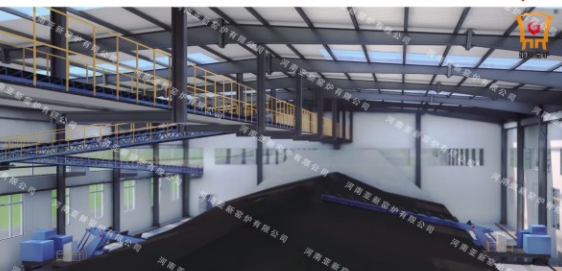
Belt Conveyor



Box Feeder



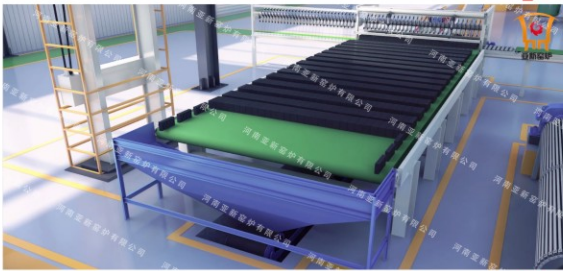
Mixer



Aging Room



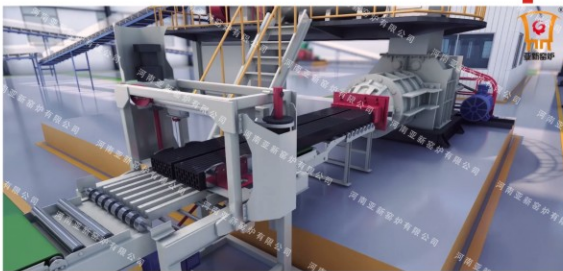
Brick Stacking



Brick Grouping Belt



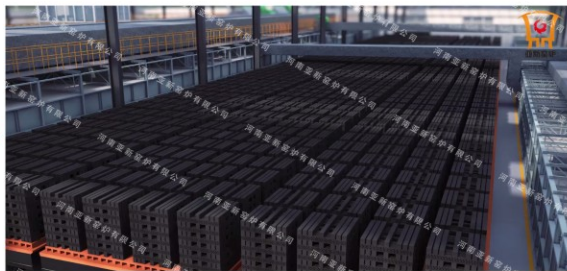
Brick Cutter



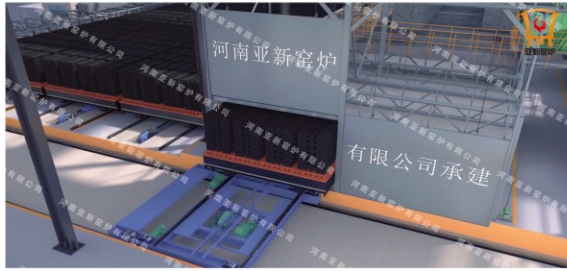
Extruder



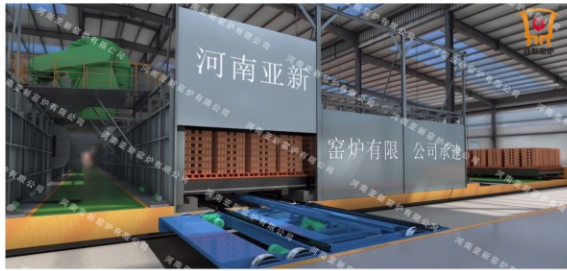
Bricks Forming



Waiting Line



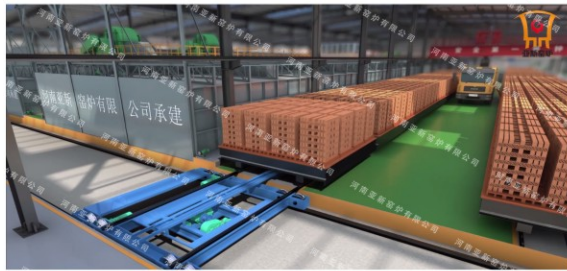
Tunnel Dryer



Tunnel Burner



Temperature Control



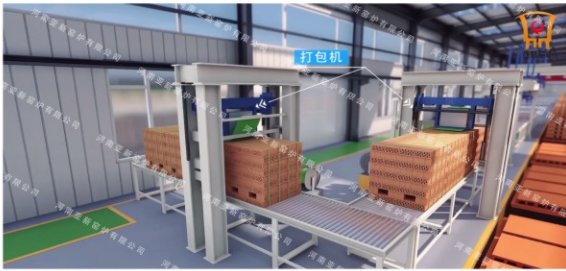
Finished Bricks



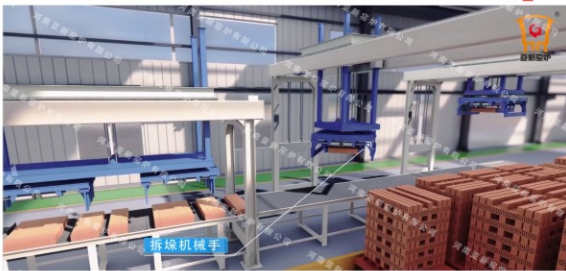
Cleaning Car



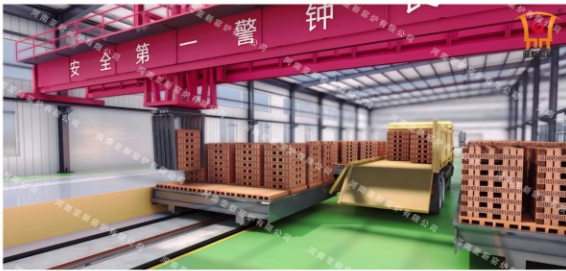
Loading to Truck



Auto Packing

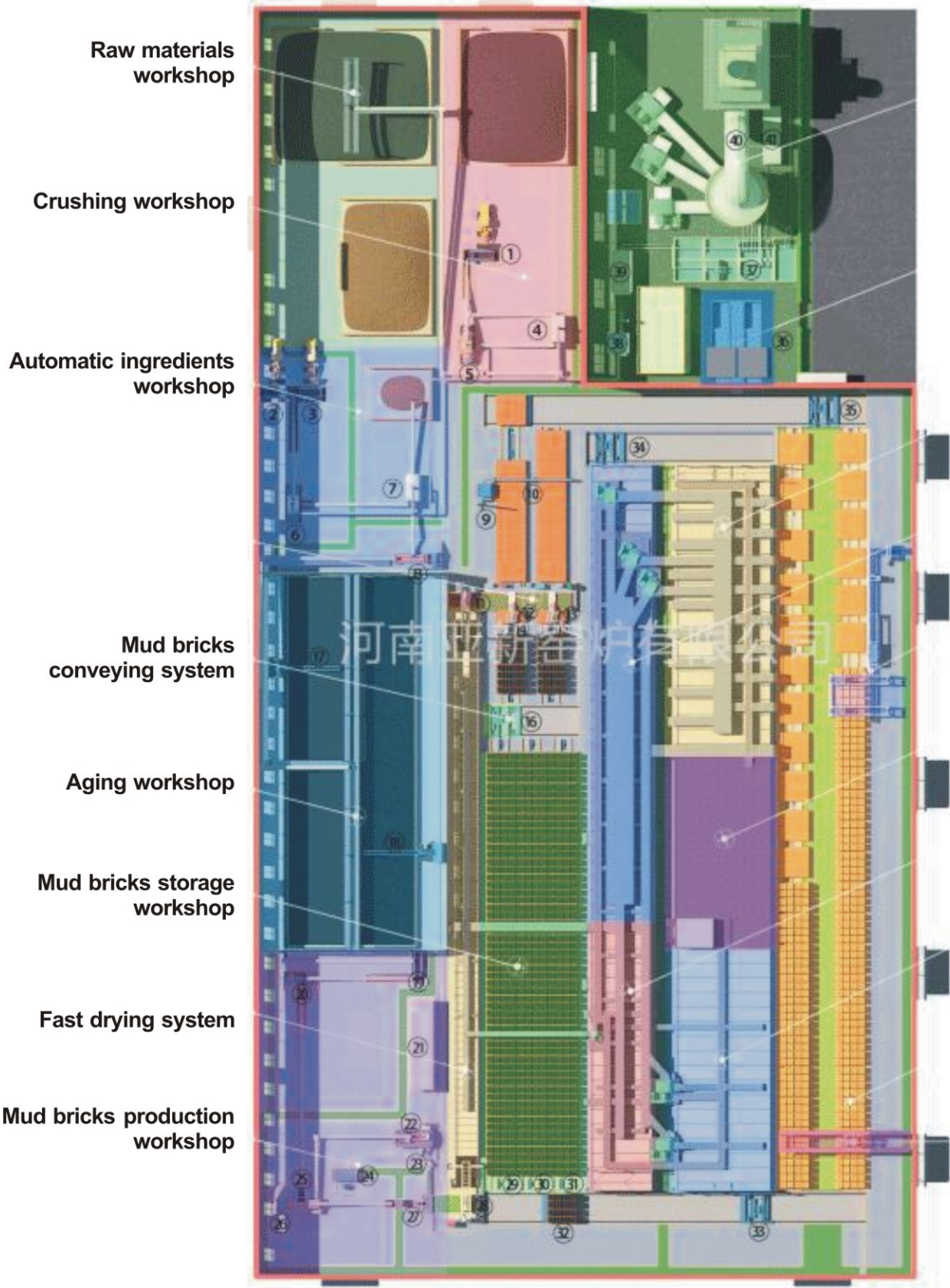


Brick Grouping



Load to Truck

EFFECT DIAGRAM OF LARGE CROSS-SECTION
TUNNEL KILN >>>

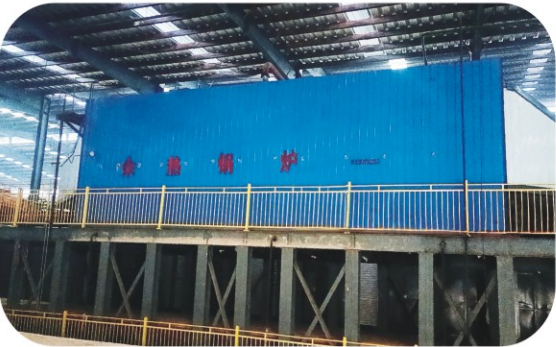


PROJECT PRESENTATION >>>

◎Minsheng Building Materials Three Assembly
Quick Drying and Baking Parallel Tunnel Kiln



国家建筑材料工业墙体屋面及道路用建筑材料节能环保评价检测测试中心 中国建材检验认证集团西安有限公司			
编号: WW202140001		第 1 页 共 1 页	
窑炉型式	拱烧平行装备多排式隧道窑炉	检验类别	委托检验
委托单位	睢县胡堂乡民生新型墙体材料有限公司	受理日期	2021 年 06 月 04 日
委托单位地址	河南省商丘市睢县胡堂乡曹楼村	联系电话	18637016088
生产单位	——	检验地点	河南省商丘市睢县胡堂乡曹楼村
窑炉状态	企业正常生产	检验完成日期	2021 年 06 月 11 日
检验依据	GB 30526-2019《烧结墙体材料和泡沫玻璃砖单位产品能源消耗限额》		
检验项目	单位产品综合能耗		
检验结论	*经测试, 该企业连续普通砖连续平行装备多排式隧道窑炉的单位产品综合能耗为 45kgce/t, 符合 GB 30526-2019 标准中连续普通砖单位产品综合能耗 2 级要求, 测试数据见单位产品综合能耗测试报告。*		
附注: (此处空白)			
批准: 王士军	审核: 李	编制: 李	签发日期: 2021 年 06 月 18 日 (检验合格/用章)
检验单位地址: 陕西省西安市雁塔区长安南路 6 号 电话: 029-85221489 邮编: 710061			
中国建材检验认证集团西安有限公司 China Building Material Test & Certification Group Xi'an Co., Ltd.			



Project: Minsheng New Building Materials Co., Ltd
Location: Suixian, Henan
Kiln Section: 4.8m*3 tunnel kiln
Kiln Capacity: around 800000 bricks per day

PROJECT PRESENTATION >>>



©Three-kiln-car Combined Tunnel Kiln in Hunan

Project: Guangjia New Building Materials Co., Ltd
Location: Changde, Hunan
Kiln Section: 4.6m*3 tunnel kiln
Kiln Capacity: around 600000-700000 bricks per day

INTRODUCTION OF ROLLER KILN >>>



◇Sintered Ceramic Products

Classification of ceramics: daily-use ceramics, art (craft) ceramics, industrial ceramics, etc.

1. Ceramics for daily use: such as tableware, tea sets, tanks, altars, basins, cans, plates, saucers, bowls, etc.
2. Art (craft) ceramics: such as vases, sculptures, garden ceramics, utensils, photo frames, murals, furnishings, etc.
3. Industrial ceramics: Refers to ceramic products used in various industries. It is divided into the following four aspects:
 - 3.1 Construction and sanitary ceramics: such as bricks and tiles, drainage pipes, facing bricks, exterior wall bricks, sanitary ware, etc.
 - 3.2 Chemical (chemical) ceramics: acid-resistant containers, pipes, towers, pumps, valves, and acid-resistant bricks and ash for lining reaction pots in various chemical industries.
 - 3.3 Electric porcelain: used for insulators on high and low voltage transmission lines in the power industry. Bushings for motors, post insulators, insulators for low-voltage electrical appliances and lighting, insulators for telecommunications, insulators for radio, etc.
 - 3.4 Special ceramics: special ceramic products used in various modern industries and cutting-edge science and technology, including high-alumina porcelain, magnesia porcelain, titanium-magnesia porcelain, zircon porcelain, lithium porcelain, and magnetic porcelain , metal ceramics, etc.

◇Roller Kiln for Ceramic Products

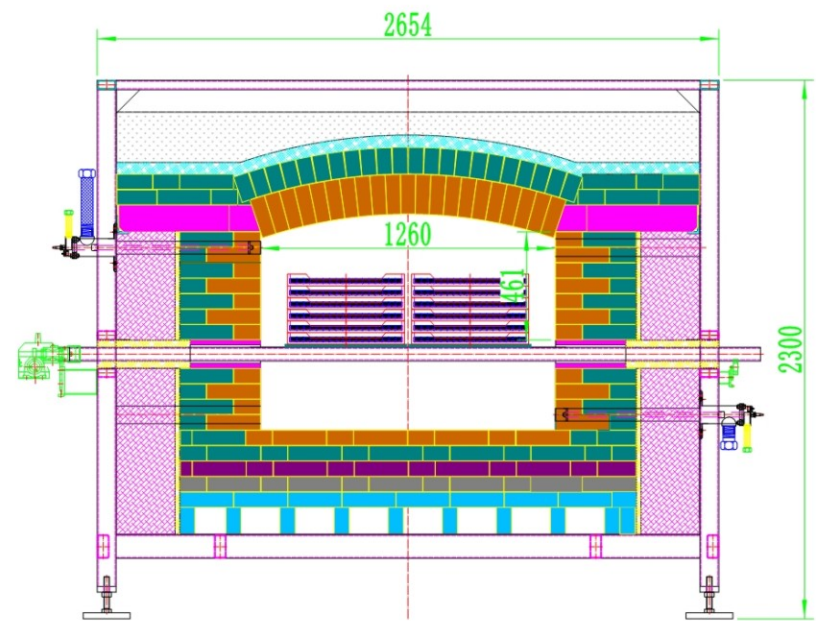
1. Roller Kiln Introduction

The roller kiln with natural gas as burning fuel is designed and upgraded by Yaxin Kiln Co., Ltd. The roller kilns come with high-quality, high-efficiency, energy-saving, nice quality of finished bricks, higher automation degree. The roller kiln is the new choice for the high-quality products.

The kiln body adopts a modular design, which ensures the manufacturing accuracy and shorten the installation time. The kiln utilizes high-grade refractory and thermal insulation materials produced in China. Products are burnt by the natural gas and the burning zone is made of mullite refractory bricks, refractory cotton, and thermal bricks which can keep the temperature and avoid the heat sending. Such Roller Kilns can improve the quality of finished products with lower energy consumption.

2. Roller Kiln Working Procedure

The formed ceramic articles are placed in the crucible, and the crucible is placed on the rollers of feeding platform, and moved to the inside of the roller kiln by rollers,going through preheating section, burning section, and cooling section in sequence. The crucibles, after ceramic products were taken out, will be used for the the next working cycle.



INTRODUCTION OF SINTERING CERAMIC ROLLER KILN >>>

3. Roller Kiln Structure

The roller kilns is made of kiln system, driving system, burning system, gas flu system, electrical control system, safety protection and interlock system, etc.

◇Roller Kiln Show



◇Finished Ceramic Products



BLUE BRICK AND TILE PRODUCTION LINE >>>

Blue bricks have the characteristics of strong air permeability, good water absorption, maintaining air humidity, wear resistance, and corrosion resistance for years. The blue bricks with specific historical appearance, is the necessary building materials for the imitative ancient architectures.



CUSTOMER CONFIRMATION >>>



◇Thanks Letter

感谢信

河南亚新窑炉有限公司：

感谢贵公司在我厂建设期间提供的设备技术支持和全面到位的服务，同时感谢贵公司委派的技术人员曹青华同志，在建设期间，曹青华在技术上精益求精，工作中脚踏实地、不辞辛苦，圆满出色的完成了贵公司交给的任务。他的每一次指导、每一个建议都促使我们不断奋进。饮水思源，我们深知，我厂顺利施工和建设离不开贵公司的支持与帮助。在今后的发展中，我们希望能够继续得到贵公司的关心和支持，我们有信心与贵公司一起抓住机遇、不断开拓市场、创造更好佳绩！

最后，特向贵公司及曹青华同志表示真诚的感谢！

三台县芦溪镇发兴页岩砖厂
二〇一九年二月

感谢信

河南亚新窑炉有限公司：

感谢贵公司在我厂建设期间提供的设备技术支持和全面到位的服务，同时感谢贵公司委派的技术人员李坤同志，在建设期间，李坤在技术上精益求精，工作中脚踏实地、不辞辛苦，圆满出色的完成了贵公司交给的任务。他的每一次指导、每一个建议都促使我们不断奋进。饮水思源，我们深知，我厂顺利施工和建设离不开贵公司的支持与帮助，在今后的发展中，我们希望能够继续得到贵公司的关心和支持，我们有信心与贵公司一起抓住机遇、不断开拓市场、创造更好佳绩！

最后，特向贵公司及李坤同志表示真诚的感谢！

禹城市红九新型建材厂
二〇一九年七月

感谢信

河南亚新窑炉有限公司：

由贵公司承建的汉中市欣旺达新型环保建材有限公司年生产1亿块标砖的新建项目，经过近一年时间的建设并调试已圆满完成。为了实现这一目标，在贵公司的高度重视及大力支持下，同时也在以黄俊峰同志为骨干的技术团队的精心施工、密切配合下；秉承优质工程理念，在工程建设过程中，贵公司总包项目攻坚克难、不辞劳苦，保质保量的完成了我公司的整体新建项目，达到了预期目标。

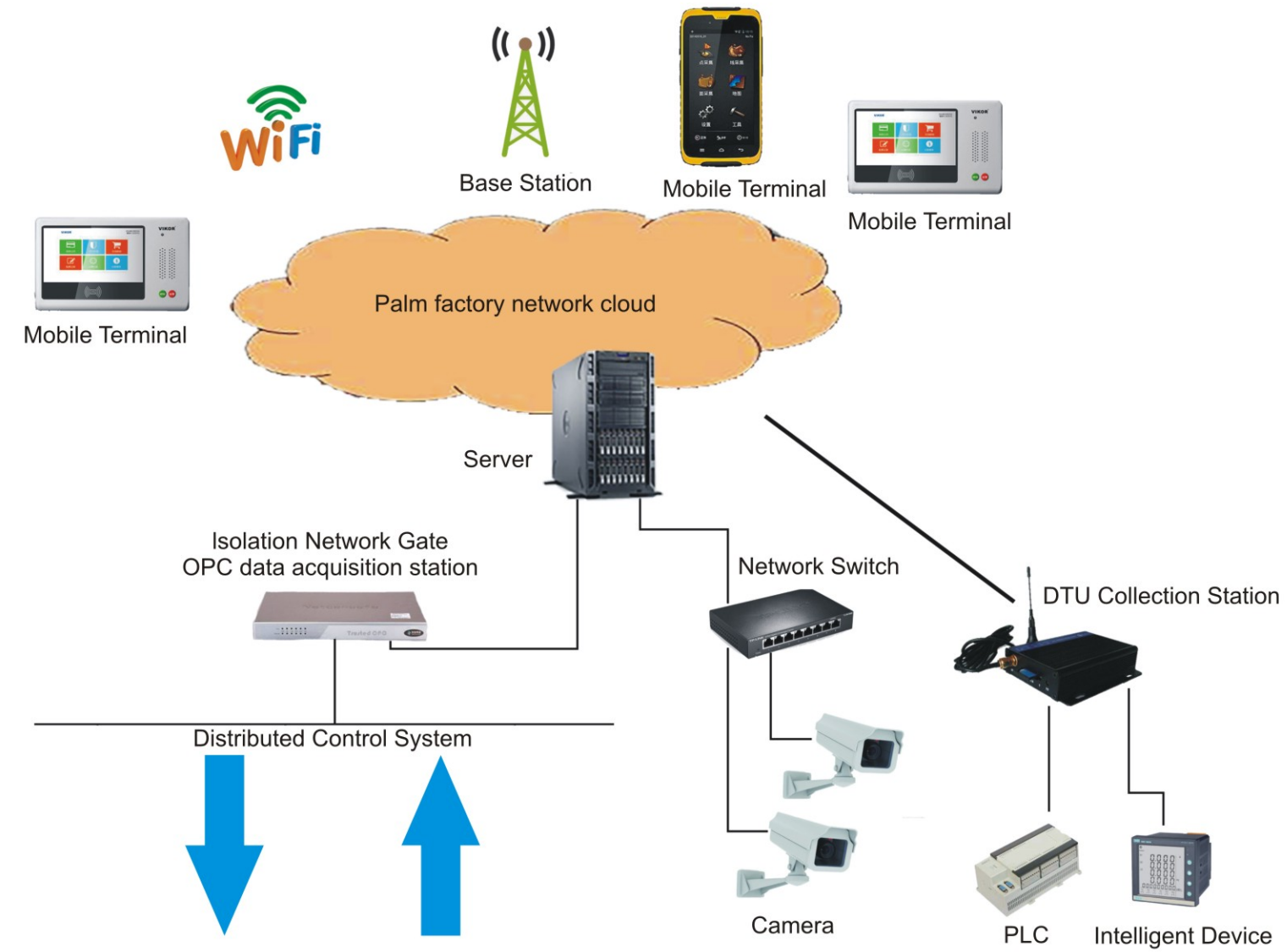
对贵公司良好的管理能力和过硬的技术水平以及贵公司员工爱岗敬业、无私奉献的精神，我们表示衷心的感谢！衷心祝愿贵公司的发展再上新台阶，祝愿双方继续保持良好合作，实现互利共赢。

汉中市欣旺达新型环保建材有限公司
二〇二二年一月二日

COMPANY WORKSHOP DISPLAY >>>



INTELLIGENT CONTROL CENTER >>>



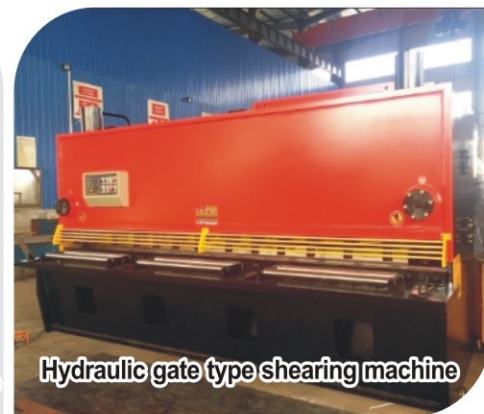
PRODUCTION CAPACITY DISPLAY >>>



Hard support dynamic balancing machine



Hand held laser welding machine



Hydraulic gate type shearing machine



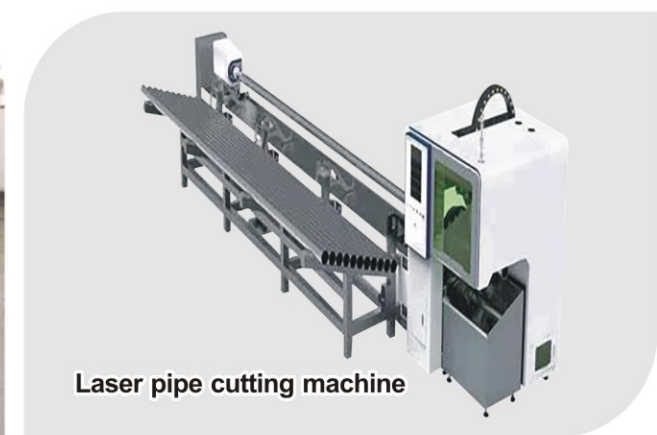
Through type shot blasting machine



hydraulic plate bender



hydraulic combined punching and shearing machine



Laser pipe cutting machine



Handheld fiber optic Laser cleaning machine



Radial drilling machine



Flat cutting machine

PARTY BUILDING AND
EMPLOYEE UNIONS >>>



YAXIN CULTURE——PEOPLE-ORIENTED, >>> LOVE & DEDICATION TO THE ENTERPRISE



Flood Donation



Flood Aid



Reward for Flood Aid



Education Aid



Consolation During Epidemic Prevention



Reward for Flood Aid



Charity Donation



Donation to Yaxin Staff



Consolation During Epidemic Prevention



Staff Donation



Education Aid



Education Aid



Consolation to The Employees and Employees' Family



YAXIN CULTURE——PEOPLE-ORIENTED, >>> LOVE & DEDICATION TO THE ENTERPRISE



Consolation to the Employees



August 1st, Army Day Veterans Activities



Leaders of the Federation of Arts and Culture Condolored Yaxin Staff



Employee Union into Yaxin



Reading Festival



Sports Meeting



May 1st, Labor Day Activities



Autumn Sports Meeting



Autumn Sports Meeting



Outstanding Employees



Staff Activities



Staff Activities



Staff Activities



Annual Meeting



Annual Meeting



Annual Meeting

Company Culture