



广东摩德娜科技股份有限公司
MODENA TECHNOLOGY LIMITED

Tel: +86-757-8663 1888
Fax: +86-757-8663 1777
E-mail: info@modena.com.cn
www.modena.com.cn



陶土板

TERRACOTTA
FACADE

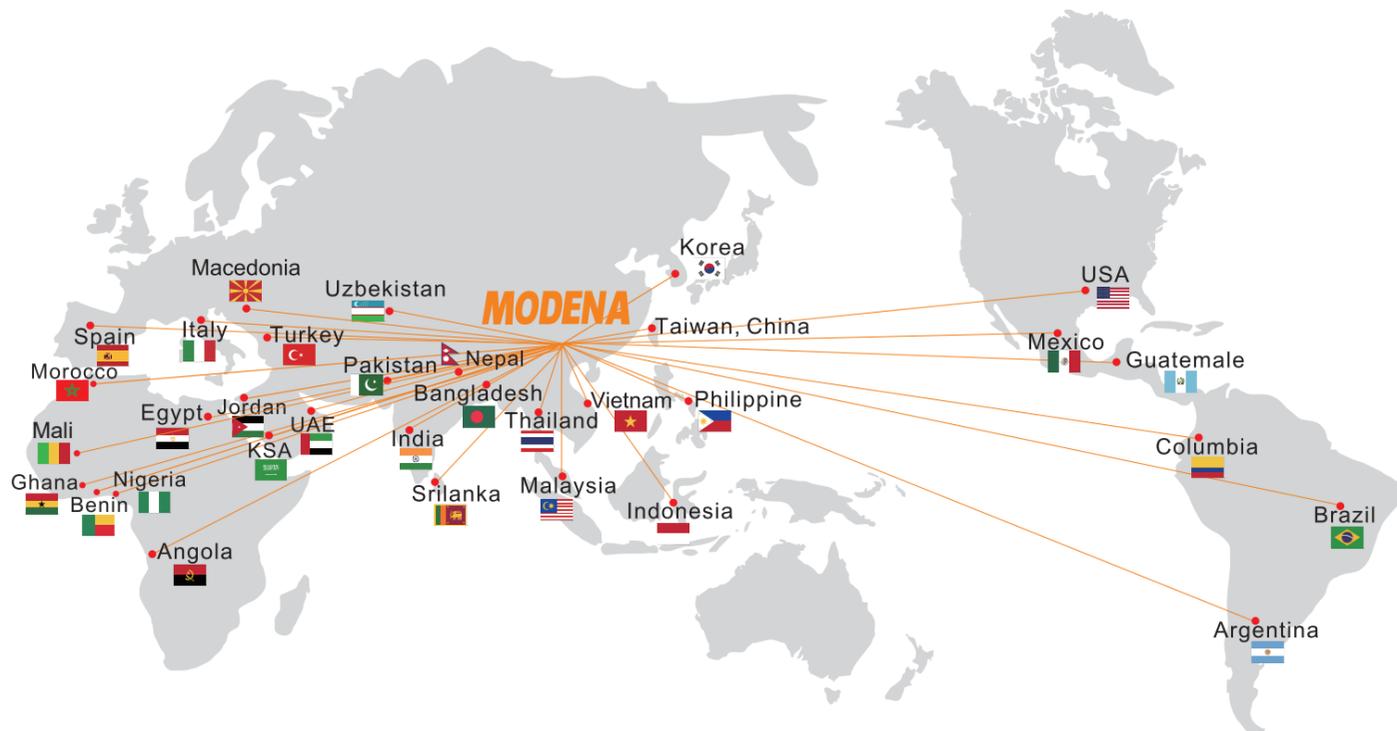
国家高新技术企业
欧盟CE安全认证
中国窑炉协会理事长单位
National High-Tech Enterprise
CE Safety Certificate of European Union
Presidential Unit of China Kiln Association



广东摩德娜科技股份有限公司
MODENA TECHNOLOGY LIMITED

来自世界各地的肯定

APPROVAL FROM ALL OVER THE WORLD



∞ 炉火纯青 Mastered Fire Engineered Excellence

自成立以来，摩德娜已为海内外市场客户提供了过千条陶瓷生产线，均得到了客户的认可。数字还在继续增加中.....

More than 1,000 production lines have been successfully supplied by Modena in both domestic and overseas market and approved by the customers. And the counting still goes on



2003 2008 2010 2011 2012 2015 2017 2018 2020 2021 2022 2023 2024

佛山市摩德娜机械有限公司（广东摩德娜科技股份有限公司前身）注册成立。

Foshan City Modena Machinery Co.,Ltd.(predecessor of Modena Technology Ltd.) was established.

3000平方米的新办公大楼投入使用。

New office building of 3,000 m2 put into operation.

佛山市摩德娜机械有限公司通过CE认证，同年获评定为“广东省高新技术企业”。

Modena qualified for CE certification and ranked as "Provincial new hi-tech enterprise".

摩德娜全资子公司新兴县摩德娜机械有限公司（占地150亩）在广东省云浮市新兴县新城工业园奠基。

Wholly-owned subsidiary of Modena, Xinxing Modena Machinery Limited, laid its foundation in Xincheng Industrial Park in Xinxing Town, Yunfu City, Guang-dong Province, covers 100,000sqm area.

摩德娜MFS-305型大规格抛光砖用高效节能宽体窑获国家科学技术部评定为“国家重点新产品”。

Modena's MFS-305 high-efficiency wide-body kiln for polished tiles was awarded as "National Key and New Product" by the Ministry of Science and Technology.

摩德娜自主研发辊道窑新型节能系统RCH获得国家技术专利（ZL201510927025.0）。

Modena's self-developed new type of energy-saving system RCH obtained National Patent (No. ZL201510927025.0).

摩德娜成功研发并推出新型电子空燃比（ADC）系统并获得国家专利（ZL201711461351.2）。极大程度地赋予辊道窑以更大的生产弹性和更高层次的自动化水平，并在能耗上达到了390kcal/kg（瓷质砖），为国际先进水平。

Modena researched and developed its all-new Air/Gas Smart Control system (ADC) and obtained National Patent (No. ZL201711461351.2). The ADC system empowers the roller kiln with more productivity and higher level of automation, gas consumption reaches 390kcal/kg (for vitrified products) which is at the international leading level.

2018

亚洲首条双层大规格岩板窑炉生产线在印度LIOLI工厂一次性投产成功，整线热工设备由摩德娜提供。

The very first Double-decker kiln for large-format sintered slab production line in Asia, supplied by Modena to LIOLI, was put into production successfully.

2020

在中国岩板爆发的元年，摩德娜得到多家国内陶瓷头部企业（蒙娜丽莎，东鹏和金牌等）的青睐，供应多条INFINITY系列双层岩板窑炉和多层干燥器。截止2020年9月，亚洲区域的所有双层岩板窑炉（超过9条）均为摩德娜制造。

The year of 2020 is the year of Sintered Slab in China, Modena got many domestic ceramic head enterprises (Monalisa, Dongpeng, Goldmedal etc.). Till September 2020, all the Double-decker kilns for sintered slab in Asia are provided by Modena (more than 9 lines).

2021

在后疫情时代，摩德娜整体营业收入创下历史记录。在出口市场尤为突出，3352个货柜的年度出货量冠绝行业，覆盖全球各大陶瓷产区，且以“全窑型”的全面数据回答了新时代的问题。

In the post epidemic era, Modena set a historical record of annual turnover. It is particularly prominent in the overseas market. The annual shipment of 3,352 containers is the largest in the industry, covering all major ceramic zones in the world, and has answered the questionnaire of the new era with the a Full Siam of kiln models.

2022

摩德娜与霍尼韦尔达成氢能应用战略合作，共同开发陶瓷行业低碳燃烧技术。此举不仅响应国家“双碳”目标，更推动窑炉清洁能源结构的革命性突破，为全球陶瓷产业低碳发展提供了创新解决方案。

Modena and Honeywell established a strategic partnership in hydrogen energy applications to jointly develop low-carbon combustion technologies for the ceramic industry. This initiative not only aligns with China's "Dual Carbon" goals but also drives a revolutionary breakthrough in the clean energy structure of kilns, providing innovative solutions for the global ceramic industry's low-carbon development.

2023

摩德娜与新玻尔合作的10万m²/天超大产量中板窑炉生产线成功实现规模化量产，通过创新的生产架构和优化的热工系统，提供了更高效率、更稳定的生产解决方案，创下全球窑炉单线产能新纪录！

Modena and XinBoer successfully achieved mass production with their groundbreaking 100,000 m²/day porcelain tile kiln production line. Featuring an innovative production architecture and optimized thermal system, this project delivers unprecedented efficiency and production stability, setting a new world record for single-line kiln capacity in the ceramic industry.

2024

摩德娜与赣锋锂业合作的碳酸锂项目成功启动，通过独特的连续煅烧方式实现矿物中锂元素的释放与转化，展现了摩德娜技术的跨界应用，标志着摩德娜向多元化热工装备服务商的转型迈出关键一步。

Modena and Ganfeng Lithium successfully launched their lithium carbonate project. The innovative continuous calcination technology enables efficient lithium extraction and conversion, demonstrating Modena's cross-industry technological capabilities. This milestone marks a crucial step in Modena's transformation into a diversified thermal equipment solutions provider.

公司简介

COMPANY PROFILE



广东摩德娜科技股份有限公司(原佛山市摩德娜机械有限公司,以下简称“公司”)成立于2003年,是一家专业从事陶瓷机械设备研发、生产、销售和售后服务的高新技术企业。摩德娜是中国领先的陶瓷生产整厂设备供应商,以干燥和烧成设备为核心,同时配套施釉输送设备,带动整线成套陶瓷生产装备出口。产品除了销往全国中高端市场外,还远销印度、越南、美国、泰国、韩国、台湾地区、印尼、马来西亚、孟加拉国、巴基斯坦、土耳其、沙特阿拉伯、尼泊尔、约旦、加纳、阿联酋、埃及、墨西哥、哥伦比亚等国家和地区;为中国陶瓷机械,尤其是烧成设备在国际市场上赢得了良好的品牌和声誉,连续多年成为中国最大的窑炉和陶瓷整线生产装备出口企业。

Modena Technology Limited (formerly Foshan City Modena Machinery Co., Ltd.) was founded in 2003 as a high-tech enterprise specializing in the R&D, manufacturing, sales and after-sale service of ceramic machinery and equipment. Being a leading supplier of ceramic kilns in China, our main products include drying and firing equipment, with the glazing and conveying equipment as supporting products, both of which have promoted the exports of complete plants for ceramic manufacturing. Besides the domestic middle & high-end markets, Modena also exports its products to India, Vietnam, the U.S., Thailand, Taiwan, Indonesia, Malaysia, Bangladesh, Pakistan, Turkey, Saudi Arabia, Nepal, Jordan, Ghana, the U.A.E, Egypt, Mexico, Colombia, etc. Thus we have won a reputable brand name in the international market for Chinese ceramic machinery, especially the firing equipment. We are the largest Chinese enterprise exporting kilns and complete plants for years.

公司国际化的专业队伍、先进的核心技术、良好的运作管理和服务、高性价比的产品,在国际市场上具有很强的竞争能力。公司始终不忘企业和社会中的责任,一直以节能减排、绿色环保为发展方向,通过节能减排技术推动行业发展和产业升级,努力推动中国陶机走向国际市场,成为世界一流的节能环保建材成套装备企业。

The international and professional team equipped with advanced core technology, combined with excellent operational management and service as well as the cost-effective products have made Modena highly competitive in the international market. Modena has been focusing on the social responsibility, being energy-saving and green-oriented. We drive the industrial development and evolution by our energy-saving technology and we are committed to promote Chinese ceramic machinery in the international markets. Modena has now become a first-class company supplying energy-saving building materials outfits.

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最新挤出类地砖或挤出瓦生产线
The latest extruding floor tile & excluding roof tile production line

陶土制品

Terra Cotta



陶土板

Terra Cotta Panel

陶土板是采用纯净的天然陶土，经过真空挤压成型，经高温烧制而成。它具有色泽高雅，自然优雅的特点，由于采用特殊的结构设计，陶土板还具有墙体保温节能作用，是新一代的建筑装饰材料。

陶土板对原料品位要求低，与传统瓷砖生产过程相比，同单位陶土板生产可以节约用水30%，节约用电20%，节约燃气30%，生产工艺是绿色节能的。

摩德娜是世界领先的陶土板生产线的工程提供商。

The terra cotta panel adopts natural clay formed by vacuum pugging and fired in high temperature; With the feature of natural color, elegant luster and its special structure design, terra cotta panel has the function of heat insulation and energy saving, it becomes the new generation of building and decoration materials;

Large rank of raw material suit for terra cotta panel, compared to the traditional ceramic tiles, the production cost of 30% water, 20% electricity and 30% gas will be saved;

Modena is one of the leading engineering suppliers in the world for the heavy clay industry.

挤出机

EXTRUDER



- 挤出机是陶土板生产的关键设备之一。
- 由于陶土板较细的原料颗粒度，较小的挤出量，对挤泥的速度和挤出尺寸有较高要求。
- The extruder is one of the key machines of heavy clay industry.
- Due to the fine of materials' granule and small quantity extruding, the extruding speed and output size with high requirement.



技术参数及规格

Technical parameter of extruder

挤出直径 (mm) Barrel Diameter	最大挤出压力 (bar) Extrusion Pressure max	产量 (m ³ /h) Output (max.)	装机功率 (kw) Installed Power	净重 (Ton) Net weight
Ø250	20	3.5	35	1.7
Ø350	40	13	120	2.5
Ø400	30	19	120	3.5
Ø450	50	23	250	9
Ø500	40	28	250	9
Ø560	30	30	250	9

间歇式行星混料机

BATCH TYPE PLANETARY MIXER



技术参数及规格

Technical parameter of extruder

型号 Model	装料容积 (litre/升) Loading capacity	松散 装料容积 (litre/升) Capacity in loose condition	密实 装料量 (litre/升) Capacity for tightly loaded material	装料量 (kg/公斤) Capacity	外筒内径 (mm) Diamete of outside cylinder	外筒功率 (kw) Power of outside cylinder	主传 动马达 (kw) Main drive	行星 轮转速 (RPM) planetary wheel speed	混合 转速 (RPM) Rotating speed	设备 重量 (kg) Weight
mp50	75*	60*	50*	120	700	1.5	0.55	38	70	200
mp100	150*	120*	100*	240	1000	4	1.5	18.8	35.5	500
mp250	375*	300*	250*	600	1250	7.5	1.5	18.5	38.5	900
mp375	560*	450*	375*	900	1580	11	1.5	18.5	42.5	1400
mp560	750*	600*	500*	1200	1820	18.5	1.5	20.5	39.5	2000
mp750	1125*	900*	750*	1800	2000	30	1.5	19	36	2700
mp1000	1500*	1200*	1000*	2400	2200	45	1.5	17.5	30	3700
mp1500	2250*	1800*	1500*	3600	2400	30+30	1.5	14.5	30	4700
mp2000	3000*	2400*	2000*	4800	3420	45+45	1.5	14	28+28	8500

- 间歇式行星混料机是保证原料混合均匀的关键设备之一。
- 它适合粘土，陶瓷粉料及松散物料。
- 该设备的工作机理是混合各种不同密度的原料，从而获得均匀的混合料。
- 我们有几种不同尺寸和材料（不锈钢或者普通钢）的混料机，产量分别从50kg/次到最大2,000kg/次不等，相当于600到24,000kg/h的产量。
- 行星式混料机可以选配自动加水装置。
- The planetary batch mixer is one of the key equipments for mixing.
- It is suitable for clay, ceramic powder and loose material.
- Its working principle is mixing various materials and got a new uniform kind of material.
- The mixer with different size and which compose of different steel material (stainless and normal steel) . output from 50kg to 2,000 kg /cycle, correspond as the output 600kg/h-24,000Kg/h.
- Automatic water-filling device is optional.

自动切坯机

AUTOMATIC CUTTER

自动切割机是保证陶土板尺寸精确的设备之一，它可以使陶土板载挤出后的长度尺寸达到理想的要求，它的精确度可以减少烧成后陶土板的加工切削量，同时也可以减少整个生产线的能耗。

Automatic cutting machine is one of the equipments ensuring a precise size of clay panel. Which meet demands of the precise size after extruding, decreases the cutting scraps and save the energy consumption.

滚刀式切割机

WHEEL CUTTER



该同步切割机采用最新技术，通过伺服电机等测定和反馈真空挤压成型机输出的坯板长度及速度参数，驱动和控制切割装置同步动作，将连续输送的坯板切割成所需要的陶板产品尺寸。其独特设计的同步机理及切割方式，不仅使切割过程中无尾料产生，且滚刀式地切入切割精度高、质量好，同时切口光滑、自动倒角并无人为误差，从而保证了高效生产及成型质量。是陶板等大规格产品生产的最佳选择。

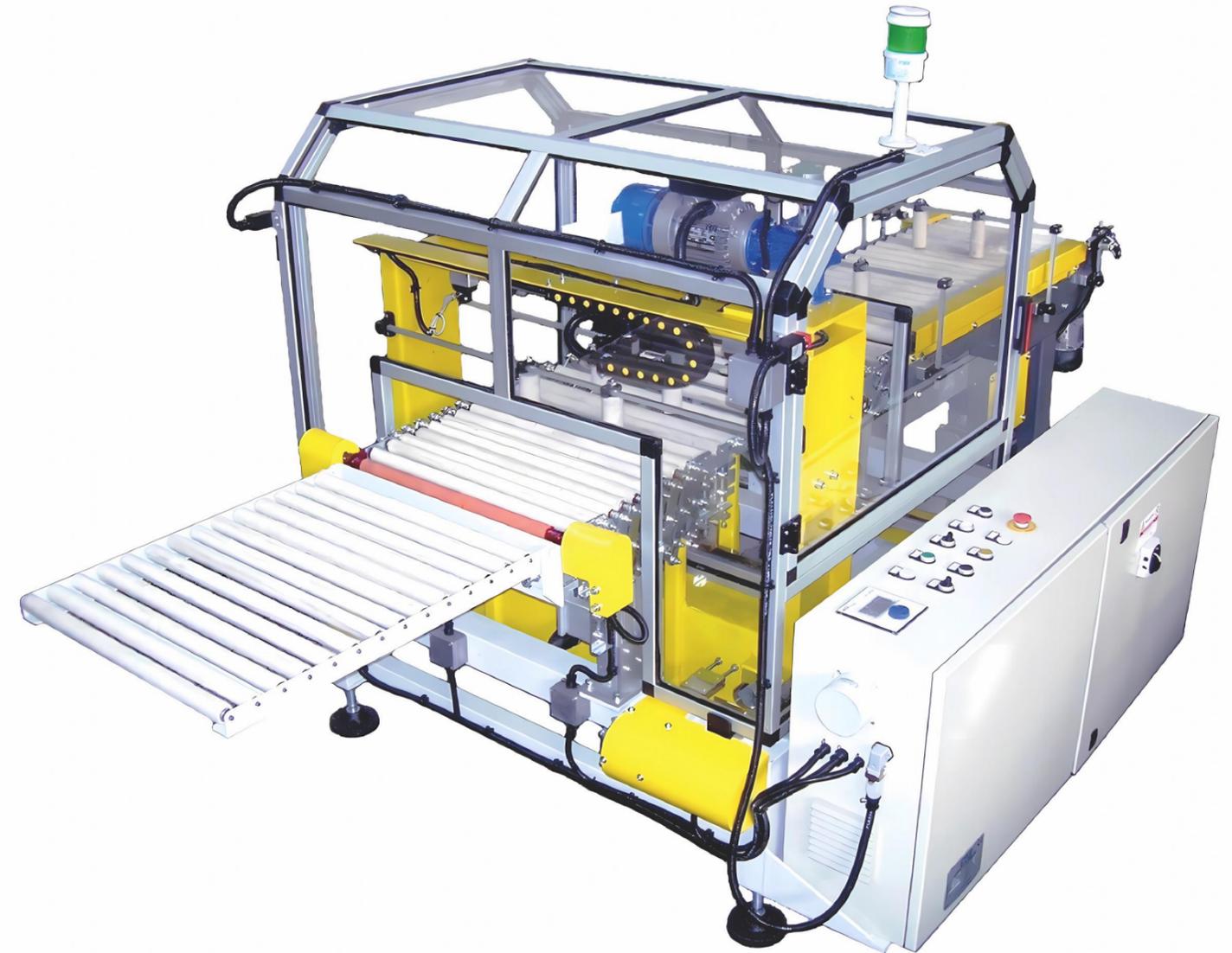
This synchronization cutting machine adopt latest technology, the data of terra cotta panel length and moving speed out from the vacuum extruder will be detected and feed back through the servomotor, driving and cutting device synchronous action, continuously moving clay panel can be cut as the demanded size, unique synchronization and cutting mechanism design, without cutting scraps, high precision and quality of smooth cutting, auto-chamfering without contrived defect ensure the high efficiency of production and molding quality. Best option for big size ceramic clay panel production.

往复式钢丝切割机

TRANSVERSAL WIRE CUTTER

该设备采用线切割原理，往复式机械系统驱动，与挤出机挤出速度同步，主要用于大规格挤出陶瓷板的切割。

The transversal cutter adopts cutting wire principle, transversal driven by a mechanical system, in phase with the cutting saddle advancement. The machine is mainly used for the cutting of big size of extruded ceramic materials.





IG 快速干燥器

IG SERIES FAST DRYER

干燥效率高，干燥周期短；

针对高水分（16%~20%），大规格挤出粘土产品设计，规格可适应：宽（200~450mm）
×长（600~3,000mm）×厚（12~30mm）；

采用内部自循环，单位热耗低至1,000~1,500kca/kg水（以产品蒸发水所需热量计算）；

可以从挤出坯体开始到产品烧出实行全自动化操作，节省人力物力并减少过程损失；

采用多层结构，有效利用厂房空间，节省土地投资。

High efficiency, fast drying cycle;

It is designed for high moisture (16%-20%) extruded large size of clay

:(200~450)×(600~3000)×(12~30)mm;

Internal heat circulation, less gas consumption(1000~1500kcal/kg water);

From tiles extruding to firing exit, the whole process is automatic control, less manpower and loss;

With multi-layers to save space and decrease the investment.



装饰线

DECORATION LINE

- 施釉线包括施釉线架,90°转弯装置、刷尘器、吹尘器、喷水柜、双尖峰甩水柜、底浆机、印花机等;
- 施釉线架包括支承传动部分、照明、电缆及电控系统、传动采用摆线针减速器加独立变频调节;
- 在最新的装饰线上,已经可以配备胶辊印花机、干粒机、喷砂机、喷墨机等设备,这样可以使挤出砖的坯体表面获得更多不同平面和立体的效果。
- The decoration line is composed of conveying line, 90°curve, brush, fan, moisture cabinet , double disc cabinet engobe spreading device and printing machine etc;
- The conveying line consists of driving support frame, light, cable, electric control system, driving system equipped with cycloid reducer with independent inverter;
- The latest technology can be equipped with Roller printing machine, granule machine, sand-blasting machine and ink-jet printer etc. on the line to get more designs effect of tiles.



进出窑炉辊台

LOADING AND UNLOADING MACHINE

- 摩德娜的进出窑设备, 平稳顺利地完成任务进出干燥和窑炉的功能;
- 升降台是多层干燥器进出的必用设备,不同层数的干燥器配以不同层数的升降台,升降系统配有变频的刹车装置,升降平稳,不振动,无冲击,砖坯的破损率为零;
- 快速追砖段的辊台转动采用变频调速,系统采用PLC程序控制,能理想地完成砖坯排队和快速追砖的功能。
- The loading and unloading machine from Modena machinery collects the tiles entry and exit from the kiln;
- Elevator is the necessary equipment for the multilayer dryer loading and unloading table, The elevator is equipped with brake system with inverter, elevating smoothly, without vibrating and jerking, without tiles breakage;
- The roller unit for recover the empty spaces between the rows equipped with inverter and PLC control, which easily meet pre-arranged rows and recovering the empty spaces between the rows requirements.



MHC系列辊道窑

DECORATION LINE

- MHC系列窑炉是摩德娜为挤出陶土行业研制的新型窑炉；
- 由于原料物理和化学特性的差异，导致在挤出陶土产品的烧制时，与传动瓷砖行业有较大的差异；
- MHC系列窑炉的结构有很多特殊之处来确保产品得到更好的氧化，更合理的冷却，获得更自然的颜色；
- 同时MHC系列窑炉运用了最新的MDR节能燃烧技术，使烧成能耗得到有效降低；
- EASYCLAY产能和能耗管理系统的运用，使该系列窑炉的稳定性，操作性，调节灵活性等方面得到更大提升；
- MHC系列窑炉是挤出陶土行业的领先设备。

- MHC series roller kilns of new type of kiln designed and manufactured by Modena machinery;
- Due to the differences of chemical and physical characters, the heavy clay firing have considerable differences compared with traditional ceramic tiles;
- The special structure of MHC series can ensure the products can be better oxidized, perfect cooling, and natural color;
- MHC series adopts the latest MDR energy-saving technology, fuel consumption obviously reduced;
- The application of EASYCLAY production and fuel control system improves the performance of stability, operation and flexibility of adjustment;
- MHC series kilns are the leading equipments of heavy clay industry.



技术参数及规格

Technical parameter of extruder

型号 Model	内宽(mm) Internal width	长度(m) Length	辊棒(mm) Roller	烧成温度(°c) Firing temperature	烧成周期(分钟/minute) Firing cycle
MHC230	2300	120~230	Ø60	1200	120~360
MHC265	2650	120~230	Ø60 / Ø65	1200	120~360
MHC300	3000	120~230	Ø60 / Ø65	1200	120~360

MHC窑炉冷却系统 COOLING SYSTEM

MHC系列窑炉的冷却系统是摩德娜公司根据陶土
板材料特性而特殊设计的；

它可以确保陶土板在冷却过程中，不至于由于冷
却不均匀而导致晶型转变时产生的开裂。冷却过程包
括三个阶段，一是快速冷却，二是间接冷却，三是最终
冷却，但与传统瓷砖的冷却又是不同的。

MHC series kiln cooling system is specially designed as per
the material characteristics of terra cotta panel, which avoid
the clay panel cracking at the process due to non-uniform
cooling. The cooling process is divided by three phase, rapid
cooling, indirect cooling and final cooling, which are
different from the cooling process of traditional ceramic tile.

MDR节能系统 MDR ENERGY-SAVING SYSTEM

MHC窑炉配备了摩德娜最新的MDR节能系统，该系统充分利用了
MHC窑炉的冷却而产生的热量，有效地提高窑炉助燃风温度
达到120-150°C，可以使窑炉节能8%，为客户节约大量
燃气，降低了生产成本。

Modena MHC kiln is equipped with the latest MDR energy saving system,
which takes fully advantage of the heat from the cooling process of MHC kiln.
Efficiently increased temperature of combustion air to 120-150°C,
saving 8% of energy, production cost is decreased accordingly.

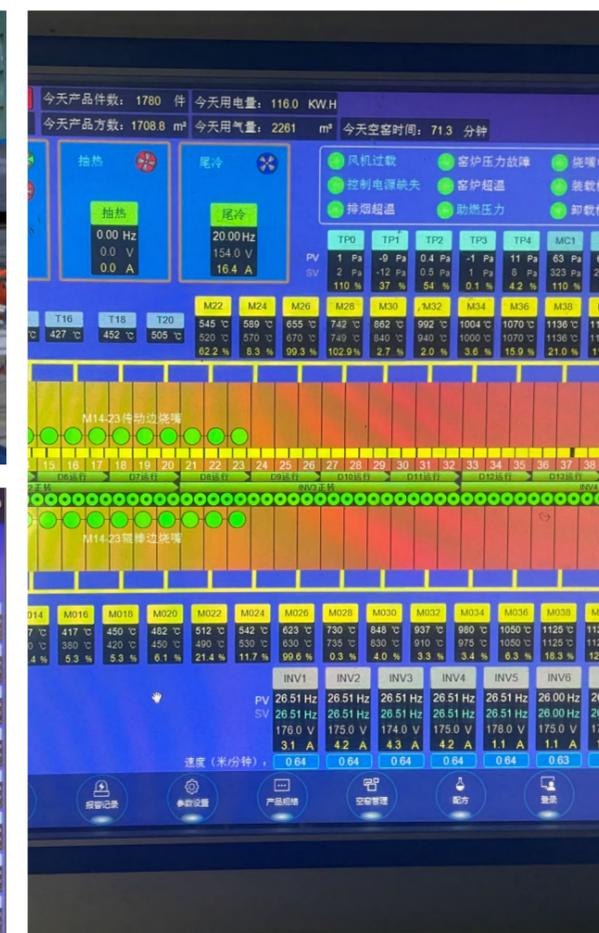
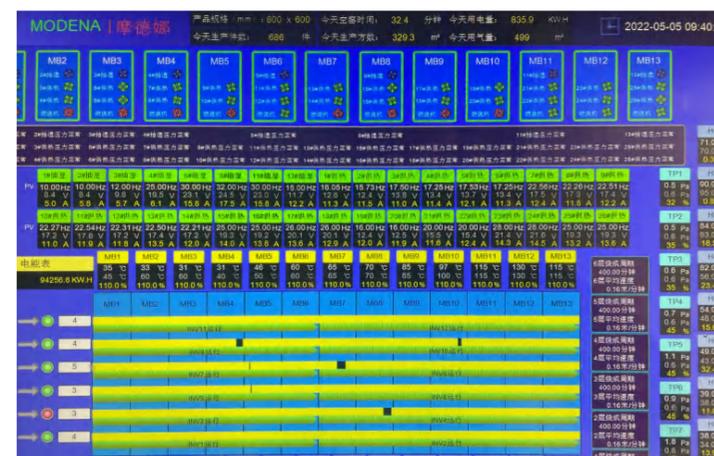
电控系统 CONTROL SYSTEM

EASYCLAY系统是摩德娜针对陶土板生产特点设计的干燥和窑炉的产能及能耗管理系统；

陶土板生产线具有产品种类多，产品更换频繁的特点；

EASYCLAY可以自动记录各种产品的干燥和烧成曲线，在产品转换时，可以非常迅速地调整干燥和窑炉达到所需要的曲线。

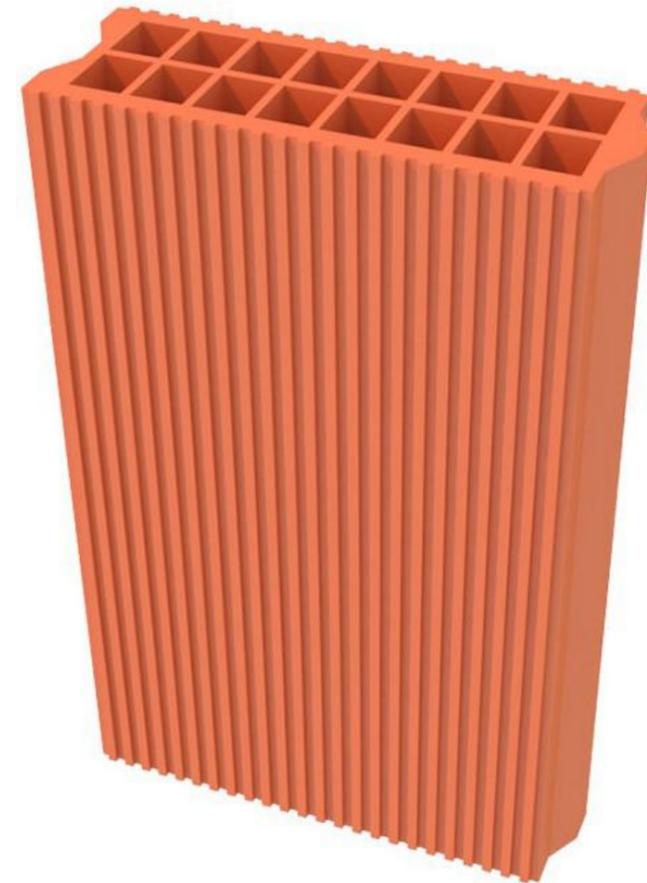
EASYCLAY system is a management system designed according the producing of terra cotta panel drying and firing. Due to various products of clay panel frequently change, EASYCLAY system can records the various products drying and firing curve, when we change the production, the firing and drying curve can be easily adjusted and meet the requirements rapidly.



烧结墙板

SINTERED WALL PANEL

- 原料利废更省钱，节水节电节能源，环保又安全；
- 施工更简单，效率成倍翻；
- 高强耐压，保温隔音，防火抗震，防潮耐腐；
- 成本低，质量高，投资小周期短，收益稳定低风险；
- Economic solution for waste materials recycling, less energy consuming, for a better eco-friendly product;
- Easy construction, doubled efficiency;
- All characteristics in one: better strength and pressure resistance, thermal insulation and sound insulation, fire resistance and vibration resistance, moisture resistance and corrosion resistance;
- Low risk investment: Lower cost, higher quality, shorter investment cycle, and stable returning;



最新挤出类地砖或挤出瓦生产线

THE LATEST EXTRUDING FLOOR TILE & EXTRUDING ROOF TILE PRODUCTION LINE

产品特点 TILE CHARACTERISTIC

- 色彩自然
- 超大尺寸:1.2 x 2.8 M
- 厚薄随意
- 形状复杂
- 生产灵活
- Natural Color
- Super Size :1.2 x 2.8m
- Random Thickness
- Complicated Shape
- Flexible Production

