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辊道窑

ROLLER KILN

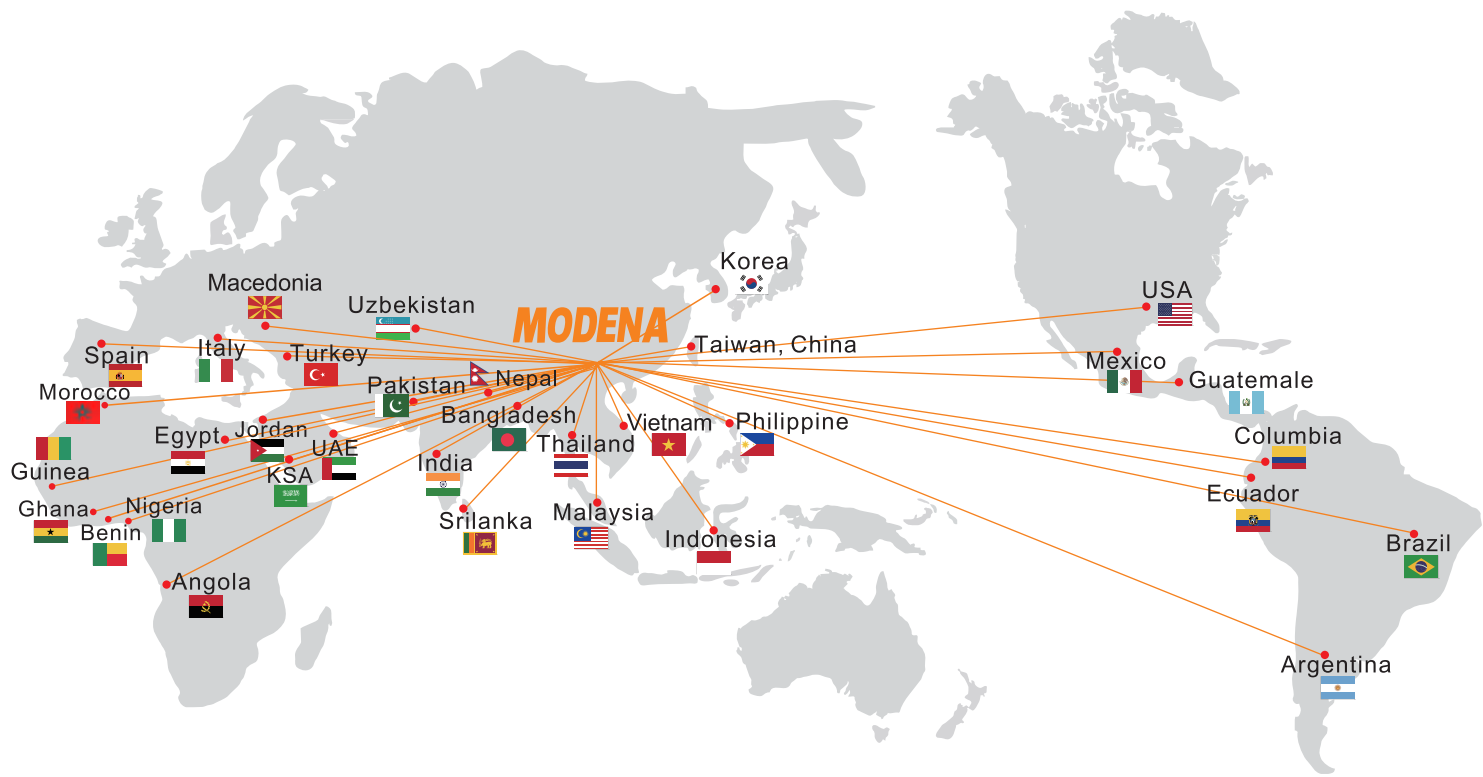
国家高新技术企业
欧盟CE安全认证
中国窑炉协会理事长单位
National High-Tech Enterprise
CE Safety Certificate of European Union
Presidential Unit of China Kiln Association



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上千条陶瓷生产线，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	2026
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。	3000平方米的新办公大楼投入使用。	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”。	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。	摩德娜MFS-305型大规模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”。	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）。	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）。极大地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。	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。	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。	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。	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。	摩德娜与新玻尔合作的10万m ² /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！	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。	摩德娜携手宏康落地全球首创VCS变截面双层窑并顺利投产。凭借自主研发截面专利，通过窑体空间重构与智能热工管控，实现节能降耗、柔性量产、提质增效多重优势。标志企业在陶瓷热工装备实现原创关键突破，以技术创新引领行业绿色智造升级。
Foshan City Modena Machinery Co.,Ltd.(predecessor of Modena Technology Ltd.) was established.	New office building of 3,000 m ² put into operation.	Modena qualified for CE certification and ranked as "Provincial new hi-tech enterprise".	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.	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.	Modena's self-developed new type of energy-saving system RCH obtained National Patent (No. ZL201510927025.0).	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.	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.	The year of 2020 is the year of Sintered Slab in China, Modena's INFINITY series thermal equipment (the Double-decker kilns and multilayer dryers) enjoyed the most popularity from the top brands (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).	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 Slam of kiln models.	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.	Modena and XinBoer successfully achieved mass production with their groundbreaking 100,000 m ² /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.	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.	Modena, in collaboration with Hongkang, has successfully launched the world's first VCS variable cross-section double-layer kiln and put it into production. Relying on self-developed variable cross-section patents, it achieves multiple advantages such as energy saving and consumption reduction, flexible mass production, and quality and efficiency improvement through kiln spatial reconstruction and intelligent thermal control. This marks an original key breakthrough in ceramic thermal equipment by the company, leading the industry's upgrade to green intelligent manufacturing through technological innovation.

公司简介

COMPANY PROFILE



广东摩登娜科技股份有限公司（原佛山市摩登娜机械有限公司，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。摩登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；

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.

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。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。公司始终不忘企业在社会中的责任，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。

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. 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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节能技术特点

ENERGY SAVING TECHNOLOGY

SPR+RCH 双余热回收节能系统 DOUBLE HEAT RECOVERY SYSTEM

RCH系统的工作原理是将最终窑炉烟囱低温余热风再回收，通过窑炉热交换单元加热后输送到干燥窑或窑炉助燃风机，实现窑炉的余热零排放。

SPR+系统利用助燃风加热系统，把余热风通过急冷单元热交换，可以实现助燃风温度加温到350℃以上，并用过滤器，使助燃风、燃气更清洁，使产品质量更优越，同时减少污染的排放，精细化自动化地将两个系统结合起来从而达到节能环保的目的。

The working principle of the RCH system is to recover the low temperature waste heat of the rapid cooling chimney, then heat it through the kiln heat exchange unit and send it to the dryer or the combustion-supporting fan of the kiln to achieve zero emissions of the kiln's waste heat.

The SPR+ system uses the combustion-supporting air heating system to transfer the waste heat through the quench unit heat exchange, which can achieve the combustion-supporting air temperature to over 350℃, and use filters to make the combustion-supporting air and gas cleaner, making the product quality better and reducing pollution. Emission, refined automation combines the two systems to achieve the purpose of energy saving and environmental protection.



节能技术特点

ENERGY SAVING TECHNOLOGY

TIS 全窑升级保温系统 UPGRADED THERMAL INSULATION SYSTEM

TIS 全窑升级保温系统是公司最新推出的,加强烧成区顶部保温、底部保温，烧嘴周围多晶散棉、高温区膨胀缝及辊孔用多晶棉塞等保温措施。整个窑炉采用优质耐火材料及保温采用超级纳米保温，使窑炉的保温性能更加优越，更加耐用。

TIS whole kiln upgrade insulation is the company's latest system. It strengthens the insulation of the top and bottom of the firing zone, polycrystalline loose cotton around the burner, expansion joints in the high temperature zone and polycrystalline cotton plugs for roll holes. The entire kiln is made of high-quality refractory materials and the insulation uses super nano insulation, which makes the kiln's insulation performance more superior and more durable.



节能技术特点

ENERGY SAVING TECHNOLOGY

ADC 智能空/燃比例控制系统 ADVANCED DYNAMIC CONTROL SYSTEM



通过燃气执行器、空气执行器、燃气线性阀、空气热风阀，温控仪表以电子空燃比例控制器等的配合工作，根据不同砖坯的烧成工艺，实现不同烧成阶段的烧嘴组有不同的最佳空燃比。当空窑时，烧嘴处于低火状态，助燃冷（热）空气也能实现自动调整与燃气的最佳比，整个过程每组燃烧组件完全由电子空燃比例控制器自动控制。电子空燃比例控制器相比传统的执行要精确多倍，能更精确控制燃气量和最佳的空气配比，实现节能效果。

Through the cooperation of gas actuators, air actuators, gas linear valves, air hot air valves, temperature control instruments and electronic air-fuel proportional controllers, etc., according to the firing process of different bricks, different burner groups at different firing stages can be realized the best air-fuel ratio. When the kiln is empty, the burner is in a low fire state, and the combustion-supporting cold (hot) air can also automatically adjust the best ratio to the gas. The entire process of each group of combustion components is completely automatically controlled by the electronic air-fuel ratio controller. The electronic air-fuel proportional controller is much more accurate than the traditional implementation, and can more accurately control the gas volume and the best air ratio to achieve energy-saving effects.

OA 含氧量分析仪 OXYGEN ANALYZER

可实时反馈窑内氧含量数据，并根据氧含量数值调节助燃风量大小，当氧含量超过设定数值则自动关小助燃风阀，降低助燃风量，当氧含量小于设定数值则自动开大助燃风阀，增大助燃风量。

It can feedback the oxygen content data in the kiln in real time, and adjust the size of the combustion air volume according to the oxygen content value, when the oxygen content exceeds the set value, the combustion damper will automatically close to reduce the combustion air volume, and when the oxygen content is less than the set value, the combustion air valve will be automatically opened to increase the combustion air volume.



节能技术特点

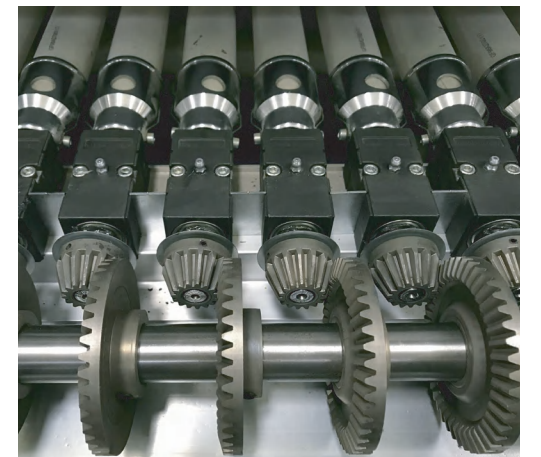
ENERGY SAVING TECHNOLOGY

IDS 高精度传动系统 HIGH PRECISION TRANSMISSION SYSTEM



全面升级传动件的结构刚性、采用最优的棒套的同心率、棒距的公差、辊棒直线度以及传动件的装配精度等，传动零部件的加工都有近乎苛刻的标准。减速机与传动轴之间采用高精度齿轮连接。使得传动输出的平稳性、精准性及耐用性有了较大提高。DRI传动设计升级系统设计了走砖纠偏装置，保证砖坯砖型平直，能避免砖坯因走砖不齐产生的变形，保持砖形良好。另外该装置还配备了断链、断轴、断棒报警系统及紧急拉绳安全装置。

Comprehensively upgrade the structural rigidity of the transmission parts, adopt the optimal concentricity of the rod sleeve, the tolerance of the rod pitch, the straightness of the rollers and the assembly accuracy of the transmission parts, etc. The processing of transmission parts has close to strict standards. The reducer and the drive shaft are connected by high-precision gears. This greatly improves the stability, accuracy and durability of the transmission output. The DRI drive design upgrade system is designed with a brick-moving correction device to ensure that the bricks are straight in the kiln channel during transportation, avoid the deformation of the bricks due to uneven bricks, and keep the bricks in good shape. In addition, the device is also equipped with broken chain, broken shaft, broken rod alarm system and emergency rope safety device.



高精度无油自润滑传动系统
HIGH-ACCURACY OIL-FREE
SELF-LUBRICANT DRIVING SYSTEM

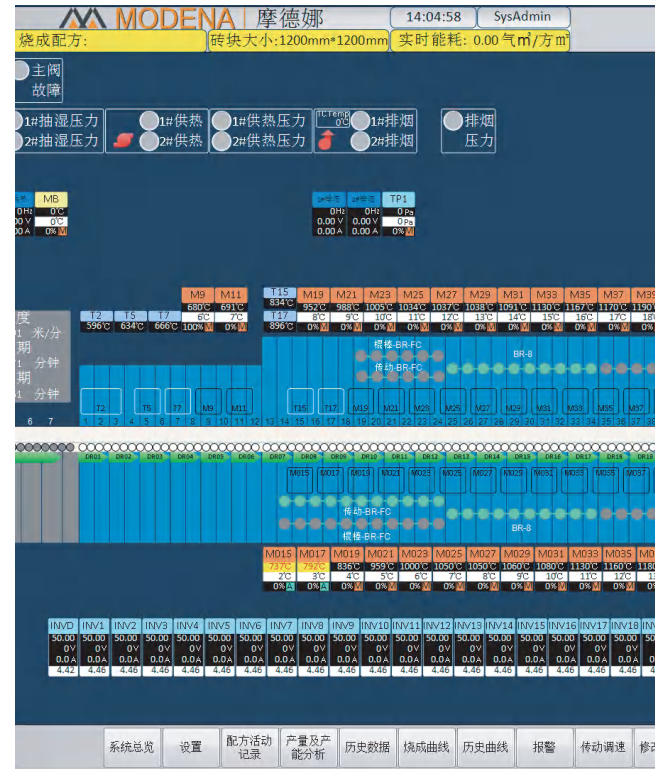
节能技术特点

ENERGY SAVING TECHNOLOGY

CIC可组态智能管理系统 CONFIGUREABLE INTELLIGENT CONTROL SYSTEM

摩德娜全新一代CIC可组态智能管理系统，可无缝对接企业管理系统，同时保证数据安全，全面配合企业客户迈进5G数据新时代。该系统采用了MDS工业自动化集成控制系统，计算机自动采集、计算、分析，无线处理运行数据，实现远程控制需求。该系统的另一大亮点是智能空窑管理系统的升级，当空窑时可以实现智能调节窑炉的气氛，不影响产品品质，能最大化实现柔性智能生产。

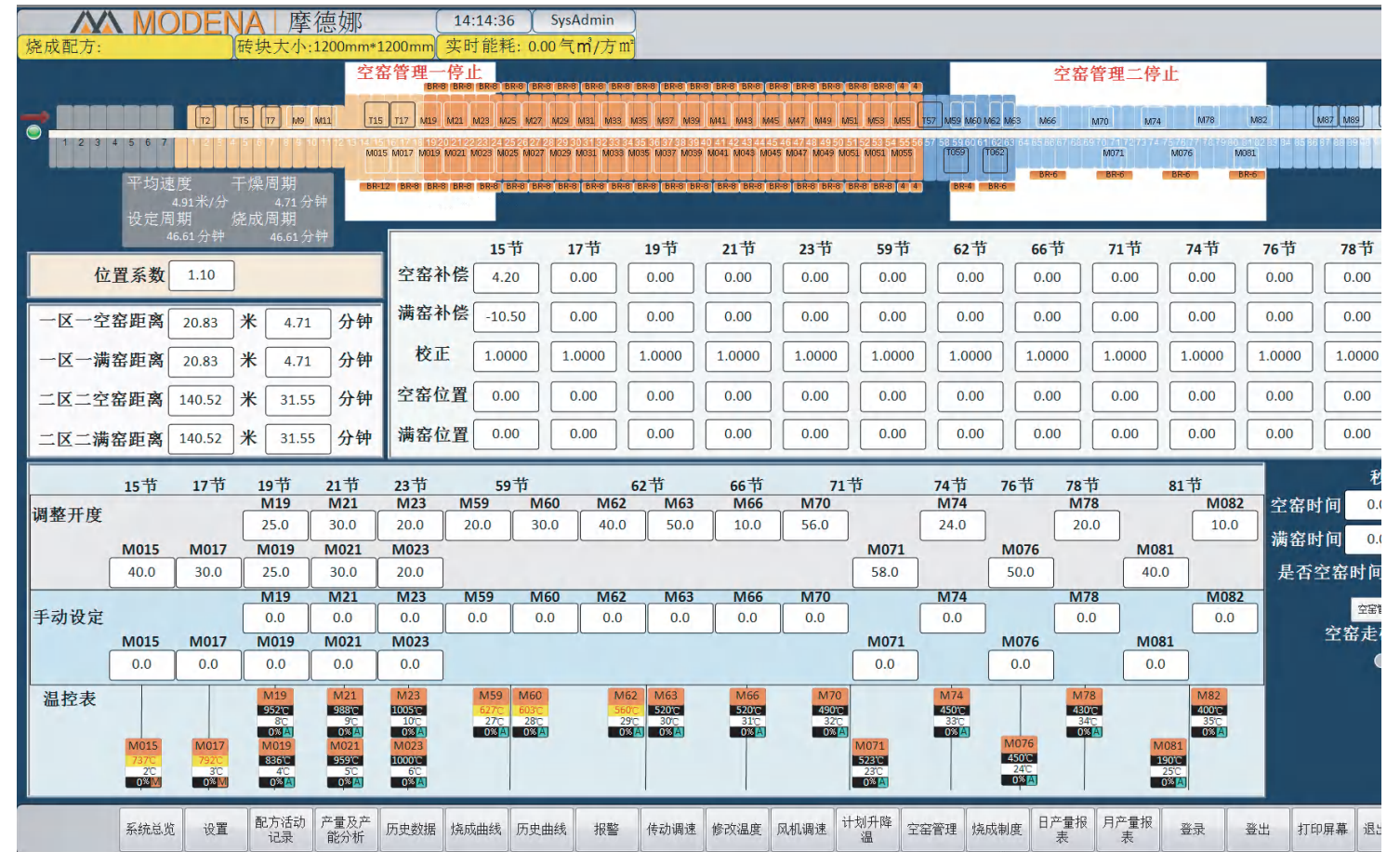
Modena's new generation of configurable intelligent management system can seamlessly connect to the enterprise management system, while ensuring data security, and fully cooperating with enterprise customers to enter the new era of 5G data. The system uses the MDS industrial automation integrated control system, the computer automatically collects, calculates, analyzes, and wirelessly processes the operating data to achieve remote control requirements. Another highlight of the system is the upgrade of the Intelligent Kiln Gap Management System. When the kiln has gap, the atmosphere of the kiln can be adjusted intelligently, without affecting product quality, and maximizing the realization of flexible and intelligent production.



节能技术特点

ENERGY SAVING TECHNOLOGY

EKM空窑管理系统 KILN GAP MANAGEMENT SYSTEM



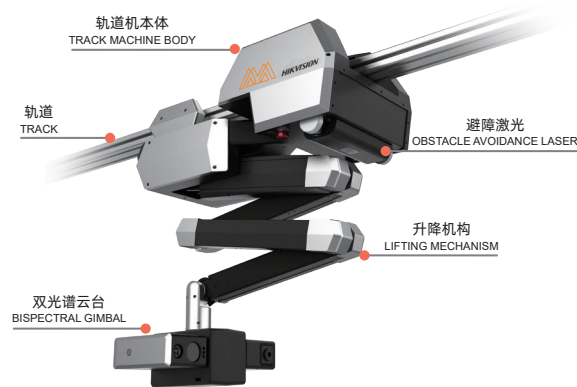
根据实际生产的短时或长时间间断空窑设计的智能化自动窑炉控制系统。可根据空窑距离，按程序算法及时调节各段烧嘴高低火（温度和执行器开度），达到不管是长短空窑，产品质量都能保持不变，并且可以起到节能的作用。整套算法实现生产控制及调节更加迅捷方便，产品质量不再担心受到空窑的影响。

The intelligent automatic kiln control system is designed according to the actual production of short-term or long-term intermittent empty kilns. According to the distance of the empty kiln, the high and low fire (temperature and actuator opening) of each section of the burner can be adjusted in time according to the program algorithm, so that the product quality can remain unchanged regardless of the length of the empty kiln, and it can save energy. The whole set of algorithms and systems make production control and adjustment more rapid and convenient, and product quality no longer worry about being affected by the temperature difference of the empty kiln.

智能巡检机系列

INTELLIGENT INSPECTION MACHINE SERIES

TPS 热巡检系统 THERMAL PATROL SYSTEM



设备特点:

- 1、一体化设计，升降云台+高清摄像机设计，轨道长度可达200M，云台升降行程最大1.6M，精度±2MM，旋转半径300MM。
- 2、双光谱检测，高清摄像机2688×1520分辨率，30M白光补光，红外热成像测温精度达±2℃，测温范围：-20℃~550℃，双光实时表计分析识别+温度异常告警
- 3、环境智能检测常规配备：主动避障，表计识别+红外测温

Equipment features:

- 1, integrated design, lifting head + HD camera design, track length up to 200m, lifting stroke of the head up to 1.6m, accuracy ±2mm, rotation radius 300mm
- 2, double spectrum detection, HD camera 2688×1520 resolution, 30m white light, infrared thermal imaging temperature measurement accuracy of ±2 ° C, temperature measurement range: -20 ° C ~550 ° C, dual light real-time meter analysis and identification + temperature anomaly alarm
- 3, environmental intelligent detection routine equipment: active obstacle avoidance, meter identification + infrared temperature measurement

热成像巡检系统可对窑炉在生产运行过程中的窑墙和窑顶的外表面温度进行实时数据监测及呈现，通过红外热成像在线实时测温，当温度出现异常时报警，全天候智能巡视检测不遗漏。通过准确的温度数据和热成像图像，操作人员可以快速识别潜在问题并采取措施，如碳化硅套断裂烧坏窑墙，窑顶掉砖漏火等，以提高生产线的安全性和效率。此外，结合THERMAL PATROL SYSTEM热巡检系统，操作人员能够遥控轨道机系统，对现场设备进行线上人工视频巡检，减少设备故障率，并有效降低维护成本，从而提升生产线的可靠性和生产效率。

The thermal imaging inspection system can monitor and present the surface temperature of the kiln wall and the kiln roof in real time during the production and operation of the kiln, measure the temperature online in real time through infrared thermal imaging, and alarm when the temperature is abnormal. With accurate temperature data and thermal imaging images, operators can quickly identify potential problems and take action, such as broken silicon carbide sleeves burning kiln walls, kiln roof brick leakage fire, etc., to improve the safety and efficiency of the production line. In addition, combined with the Thermal Patrol System, operators can remotely control the rail patrol system and conduct online manual video inspection of on-site equipment, reducing the equipment failure rate and effectively reducing maintenance costs, thereby improving the reliability and production efficiency of the production line.



配电室
Switch room



数据机房
Data room

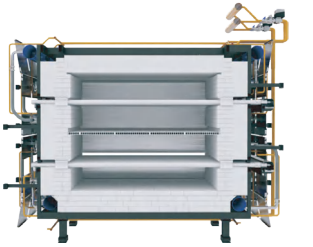


GIS室
GIS room



蓄能室
Energy storage room

辊道窑 ROLLER KILN



摩德娜将可持续发展当做企业发展的基石。节能是摩德娜窑炉的必备选项，辊道窑更是其中的代表。

辊道窑已经在世界建筑陶瓷工业多元化发展中发挥出了积极作用，摩德娜根据客户定制需求打造出全新可组态智能管理系统，可使各类设备实现智能化，自动化，连续化和低能耗化生产与运行。

Modena regards sustainable development as the cornerstone of corporate development. Energy saving is a necessary option for Modena kilns, and roller kilns are the representative of them.

The roller kiln has played an active role in the diversified development of the world's architectural ceramics industry. Modena has created a new configurable intelligent management system according to customer customized requirements, which can make all types of equipment intelligent, automated, continuous and Production and operation with low energy consumption.

双层烧成窑炉 DOUBLE DECKER ROLLER KILN



设备参数 / Machinery Parameter

宽: 1700~3500mm / 长: 定制长度
W:1700-3500mm / L:Customized

适用产品 / Applicable Product

大规格岩板/釉面地砖/内墙砖
Sintered stone/Glazed Floortiles/Wall tiles

变截面双层窑炉 VARIABLE CROSS-SECTION DOUBLE-LAYER KILN

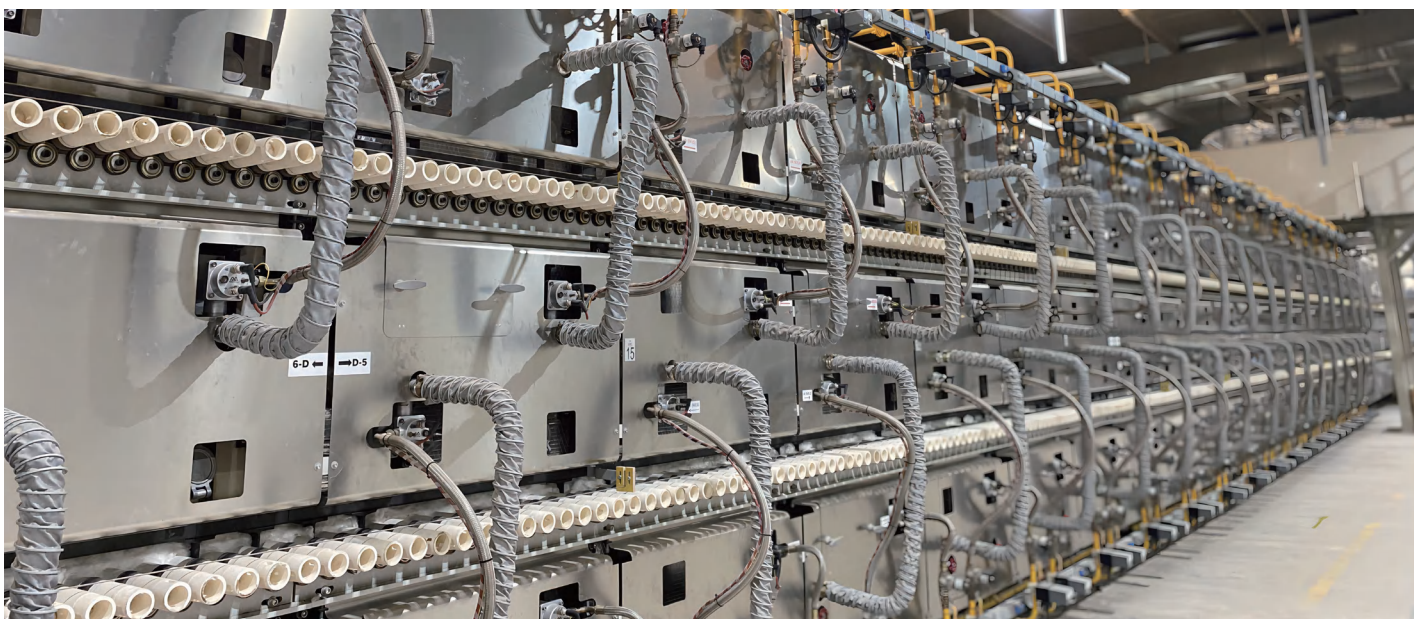


设备参数 / Machinery Parameter

适用产品 / Applicable Product

宽: 2350-3100mm/长: 120-230m / W:2350-3100mm/L:120-230m 地砖/内墙砖 / Floor tiles/Wall tiles

MFS-DUO | 双层烧成窑炉 DOUBLE DECKER ROLLER KILN



设备参数 / Machinery Parameter

适用产品 / Applicable Product

宽: 1700-3450mm / 定制长度 / W:1700-3450mm / L:Customized 地砖/内墙砖 / Floor tiles/Wall tiles

大岩板系列 | 单层烧成窑炉 INFINITY | SINGLE LAYER ROLLER KILN



设备参数 / Machinery Parameter

适用产品 / Applicable Product

宽: 1700-3100mm / 长: 定制长度 / W:1700-3100mm / L:Customized 大规格岩板 / Sintered Slab

MFS | 宽体窑炉 WIDE KILN



设备参数 / Machinery Parameter

适用产品 / Applicable Product

宽: 1700-4550mm / 定制长度 / W:1700-4550mm / L:Customized 地砖/内墙砖 / Floor tiles/Wall tiles

西瓦窑炉 ROLLER KILN FOR ROOF TILES



设备参数 / Machinery Parameter

宽: 2300-3000mm/长: 120-230m / W:2300-3000mm/L:120-230m

适用产品 / Applicable Product

西瓦/陶土板 / Roof Tiles/Terra cotta etc.

日用瓷窑炉 ROLLER KILN FOR TABLEWARE



设备参数 / Machinery Parameter

宽: 1500-2400mm/定制长度 / W:1500-2400mm/L:Customized

适用产品 / Applicable Product

高档日用瓷 / High class tableware

MHT-XL | 超宽体精烧辊道窑 ULTRA WIDE METICULOUS FIRING KILN



设备参数 / Machinery Parameter

宽: 1300-3680mm / 长: 定制长度 / W:1300-3680mm / L:Customized

适用产品 / Applicable Product

全规格岩板/高端瓷砖
Full size sintered slab/ high-end tile

辊道窑应用案例 APPLICATION OF ROLLER KILN



高效节能辊道窑
High Efficiency and Energy Saving Roller Kiln

可设计窑炉长度 Possible Kiln length	40-600 M
有效内宽 Useful width	1300 mm--4550 mm
最高设计温度 Maximum temperature	1300 °C
最高运行温度 Max working temperature	1160-1250 °C
参考烧成周期 Approximate firing cycle	30-180 mins
气氛 Atmosphere	Oxidizing
燃料 Fuel	NG/LPG/Hydrogen or hybrid /Coal Gas etc.

备注：实际温度可能会根据产品类型，安装的辊棒和要生产的产品的重量而有所不同。
Remark:Indicated temperatures may vary according to product type, the installed rollers and the weight of the material to be produced.

	单位 Unit of measure	MDS-160	MDS-210	MDS-310	MDS-345	MDS-368	MDF-400	MHL-XL	MFS-455
最大宽度 Max channel width	mm.	1600	2100	3100	3450	3680	4000	4350	4550
最佳装载宽度 Optimal load width	mm.	1400	1800	2800	3050	3350	3650	4020	4250
窑炉参考长度 Indicative length	mt.	50-250	75-300	75-500	75-400	75-400	50-300	50-300	50-300
参考烧成周期 Indicative firing cycles	min.	30-120	50-150	50-150	30-90	30-90	20-50	40-90	20-50
最高工作温度 Max. working temperature	°C	1250	1250	1250	1250	1250	1250	1250	1250
燃料 Fuel	mm.	气体燃料/Gaseous							
气氛 Atmosphere	mm.	氧化/Oxidizing							
辊棒间距 Roller pitch	mm.	40~84	53.84~87.5	70~87.5	75~87.5	75~87.5	80.77~87.5	80.77~87.5	80.77~87.5
辊棒直径 Roller diameter	mm.	27-65	33.7-65	55-65	60-65	60-65	65	65	65
辊棒长度 Roller length	mm.	2950	3350	4350	4700	4700	5050	5500	5500

荣誉见证品质
HONORS WITNESS QUALITY

