

New Product!

KING YUAN DAR Releases “Cyclic Continuous Vacuum High-Temperature Sintering Furnace”

新發表！金元達「循環連續式真空高溫燒結爐」



Following the launch of the industry-shaking AI Continuous Batch Green Chamber Furnace and the world's leading AI Vacuum Continuous Cyclic Energy Saving Spheroidizing Furnace in early 2022, Taiwanese heat treatment equipment developer and manufacturer, King Yuan Dar Metal Enterprise Co., Ltd. (KYD), is once again taking the lead in launching a new "Cyclic Continuous Vacuum High Temperature Sintering Furnace" this year, which not only incorporates more excellent features, but also is designed with the concept of energy-saving and carbon reduction as the basis of its development. It is expected to create more amazing production efficiency and product quality for the global industries that have the need for product heat treatment (e.g. fasteners, industrial components, powder metallurgy, etc.).

Saving Energy and Reducing Carbon Emission; Highly Efficient and Eco-friendly

Developed under the guidance of KYD's GM Chang-Lung Tseng, the new equipment has several features:

- **Intuitive operation:** Combining the interface of automation and intelligent hardware, the operator on-site only needs to arrange the material feeding and set values to operate.
- **Remote and AI monitoring:** Management can be carried out through watching remote images. In addition, through the precise monitoring of AI intelligent system, operators can be reminded to check the temperature of the equipment in time when it is abnormal.
- **Power transforming system:** Helping stabilize the power input to ensure normal operation of the machine.
- **Gas control system:** It can properly adjust the ratio of gases in the machine to significantly increase the yield rate of workpieces produced.
- **Heat Recovery and Recycling System:** The continuous production of the machine will transmit, convect, and radiate heat to the workpieces to achieve energy saving and carbon reduction.
- **High efficiency, environmental protection and power saving:** As more waste heat is recycled and reused, the power consumption of the equipment is further reduced.
- **Multiply the capacity and stabilize the quality:** Instead of using traditional mesh belts, this machine adopts hydraulic technology to convey parts, allowing it to operate more efficiently, thus doubling the capacity, but at the same time, maintaining the quality of products produced.

Recently Receiving an U.S. Patent for Heat Recovery and Recycling System

“Currently, no other equipment on the market has such core heat treatment technology and design similar to that of this new sintering furnace. Although 80-90% of our sales are in Taiwan at this stage, we expect to expand our global market share in the future by making more people aware of the application advantages of our equipment and one-stop service,” said GM Tseng.

In addition to obtaining the ISO 9001 and IATF 16949 certifications, the oxidation furnace structure, the chamber furnace structure, and the heat recycling system developed by KYD have been also patented in Taiwan, China, Japan, Germany, and the U.S. Its strong R&D capabilities have been internationally recognized and it has cooperated with customers throughout the fastener, automobile, motorcycle, and government sectors.

In the future, KYD will continue to dedicate itself to the development of environmentally-friendly AI heat treatment equipment and provide a 3-in-1 solution integrating heat treatment processing, gas supplies, and equipment manufacturing. In addition to the Luchu, Kaohsiung-based plant, the new plant based in Changhua Coastal Park is also expected to be officially completed by the end of this year, and the Thailand-based plant, close to local automotive supply chains, is expected to be operational next year after the installation of all equipment, which then will be a booster for KYD's global deployment.

“My long-term goal is to enter the U.S. heat treatment market within two years, and then expand our sales in Taiwan to win a higher market share for our competitive equipment,” said GM Tseng. □

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