Hengli Product application

SMART EQUIPMENT GREEN DEVELOPMENT

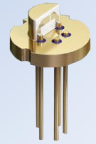
CONTENT

Dedicated Equipment and System Integration Service Provider

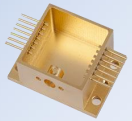
Hengli Eletek Co., Ltd. was established in 1992, and committed to developing key equipment represented by electric heating equipment, environmental protection and Plating equipment, and intelligent equipment, and to strengthening and expanding special equipment with process as the core, so as to become the main force in the industry and building "3+N" series business. Maintain the advanced level of the industry in key technical indicators and achieve high-quality and sustainable development.

150+ PATENT **50000㎡** BASE **3000+** CUSTOM **10000+** EQUIPMENT

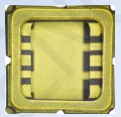
Application



TO shell



Metal tube shell



Ceramic shell

Bullet shell

Missile shell

Radar panel

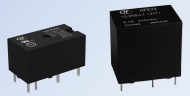
Piston ring

Piston rod

3C shell

Auto parts

Cylinder



Relay

Microwave device

Fasteners

Hardware

More Applications

Main Customers

30 years, Hengli has served all kinds of foreign and Chinese enterprises, military enterprises, research institutes and colleges and other nearly 3000 enterprises and institutions

Qualification

Milestones

1992
HENGLI Technologies was founded

2004
The 1st furnace was exported to EUROPE

2005
Undertake the construction of the entire electroplating surface treatment workshop

2009
Sales was over 10 million.

2010
HENGLI Technologies renamed to HENGLI ELETEK

2020
Moving to No.28 Hehuan Road Hefei Hengli Industrial Park

2021
Accumulated construction of thousands of intelligent electroplating production lines

2022
Sales was over one billion

Export products more than 30 countries

FUTURE

03
Part

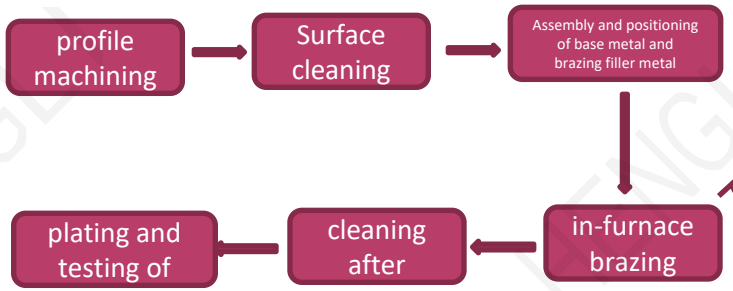
PRODUCTS

High-temperature brazing furnace

Application :

High temperature brazing products of stainless steel and copper, such as evaporators, automotive engine sealing devices, and aviation shell brazing

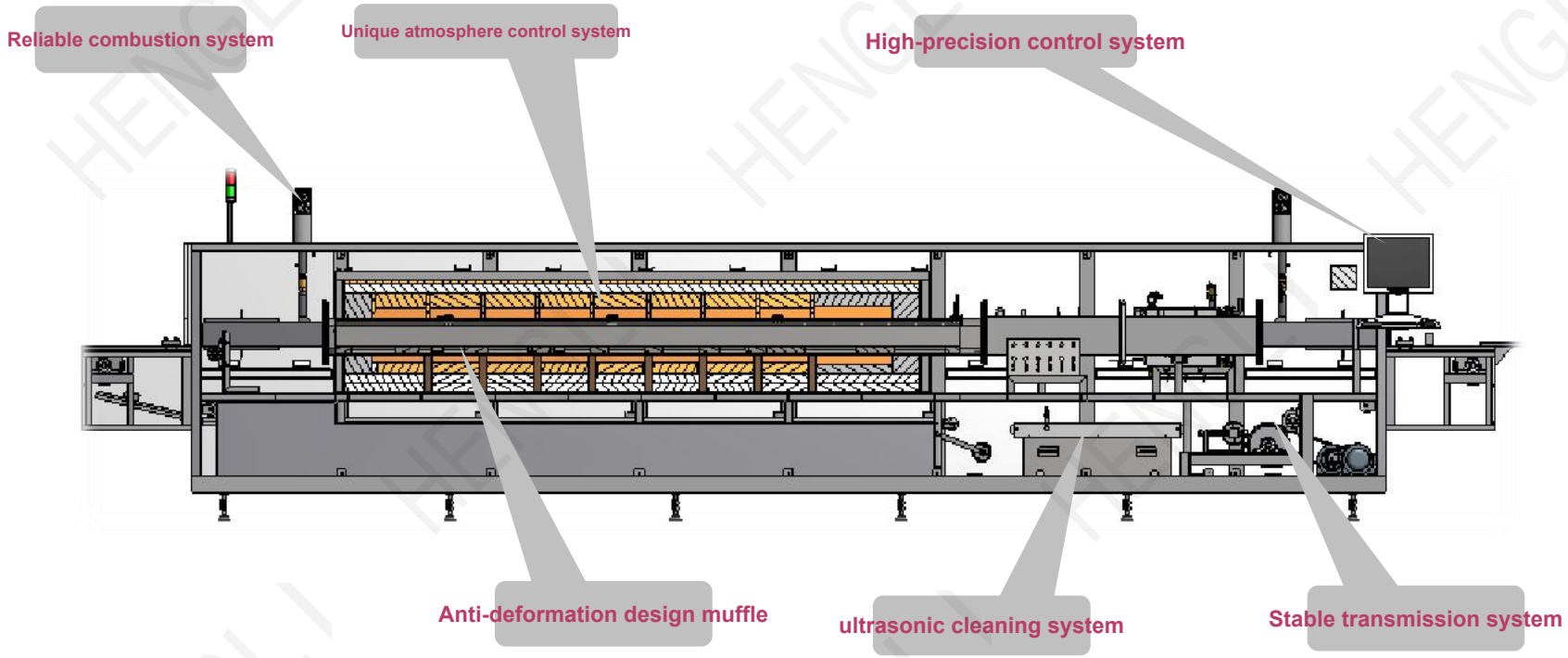
Process flow diagram of high temperature brazing



High-temperature brazing furnace

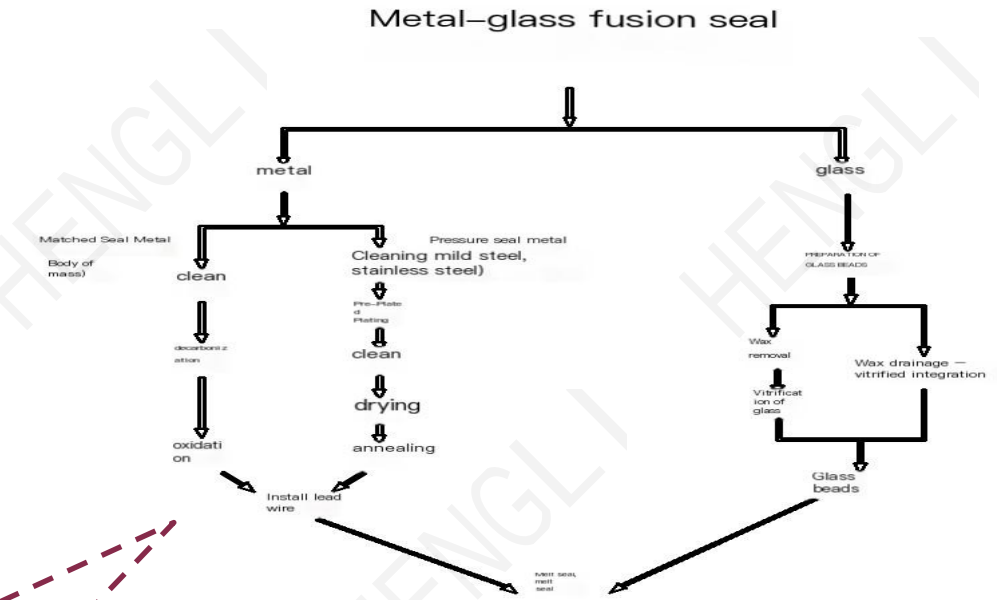
Product Features:

Unique atmosphere control is adopted to ensure the uniform flow of reducing atmosphere in the furnace and safe and pollution-free emission. High-precision temperature control technology is used to greatly improve the temperature uniformity of the furnace. The unique anti-deformation muffle design extends the service life of the muffle.



Series	Belt width (mm)	Temperature zone	Temperature zone length (mm)	Highest temperature zone (℃)	Effective height (mm)	Temperature uniformity (℃)	Atmosphere
HSA	100-400mm	8-10	300/330/450/600	1200	50-100mm	±1～2	N2+H2

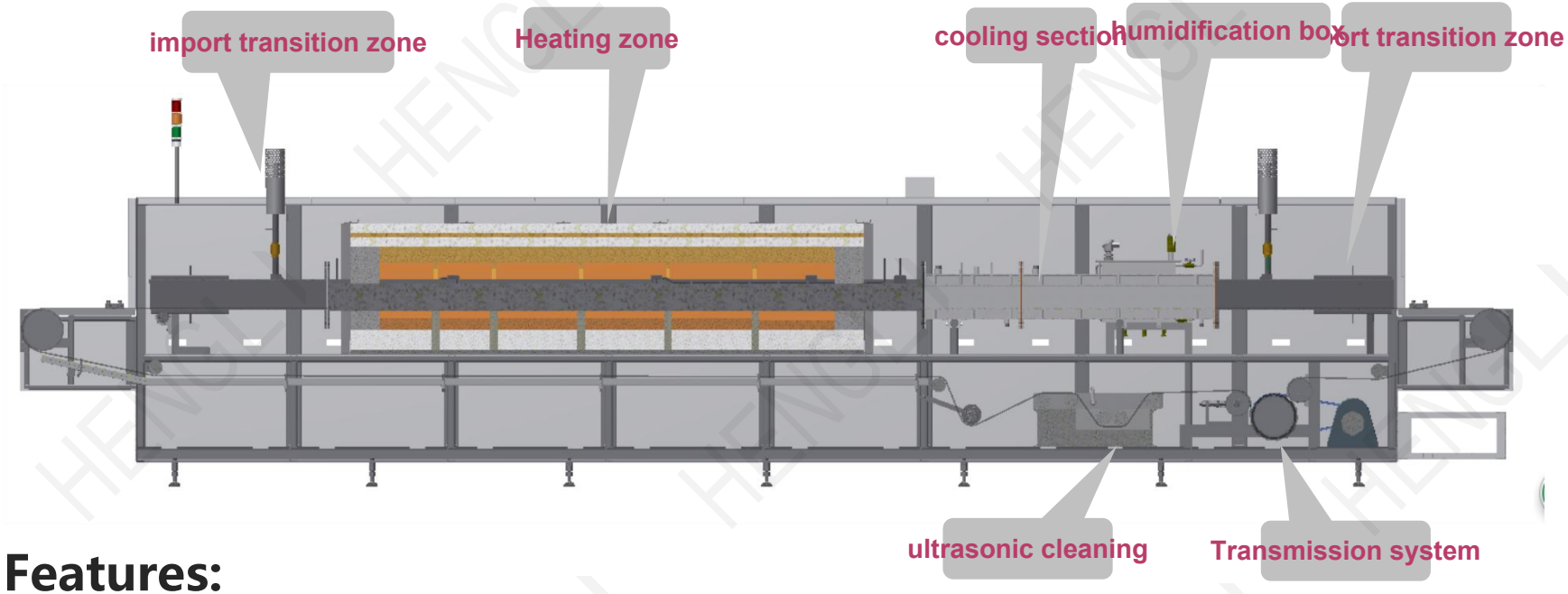
Oxidation furnace



Application:

It is mainly used for the pre-oxidation of Kovar alloy in metal-glass fusion sealing.

Oxidation furnace

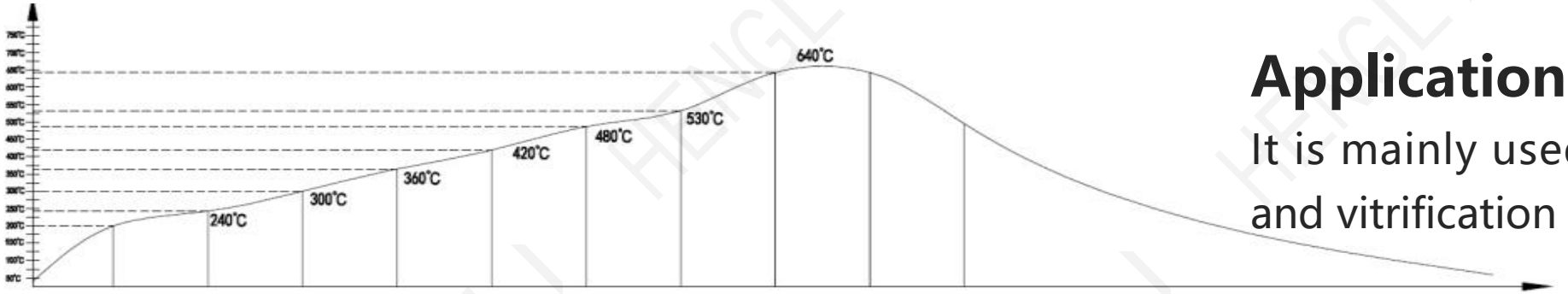


Product Features:

Lightweight furnace material, accurate temperature control, high efficiency and energy saving; unique muffle structure and atmosphere system, uniform and stable atmosphere, high oxidation yield.

Series	Belt width (mm)	Temperature zone	Temperature zone length (mm)	Highest temperature zone (℃)	Effective height (mm)	Atmosphere
HSA	150-200mm	4-5	300/450	1050	50-150mm	nitrogen gas

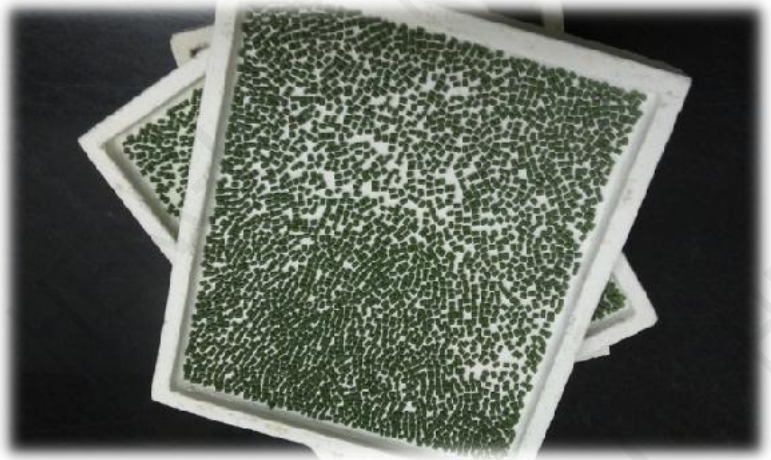
Wax removal and vitrification furnace

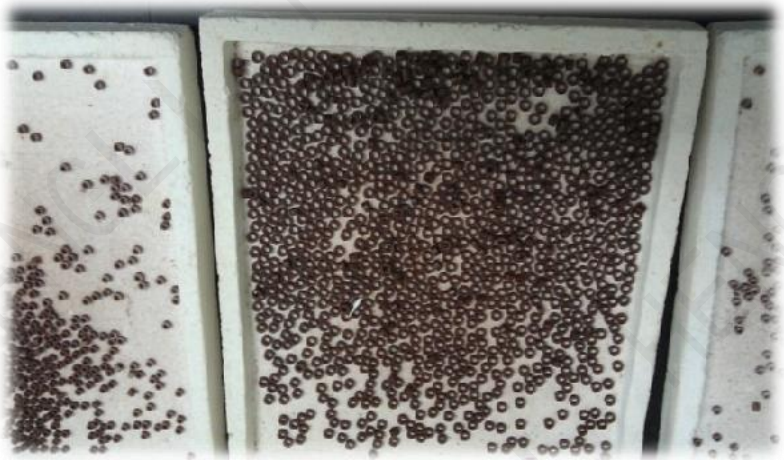


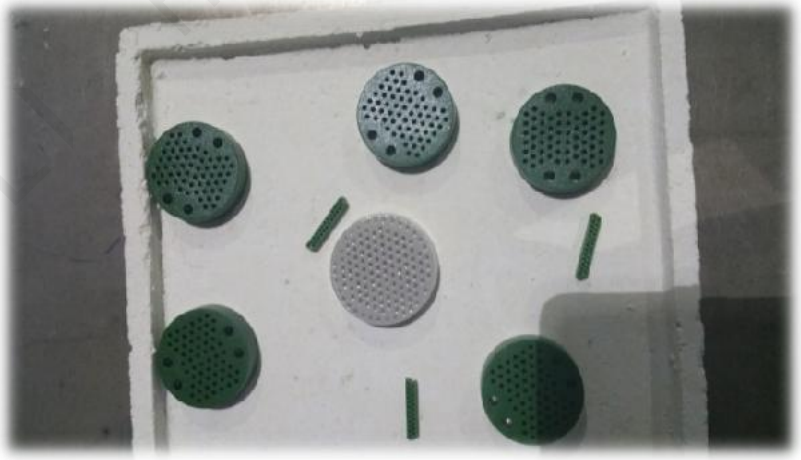
Application areas:

It is mainly used for the wax removal and vitrification process of glass beads.

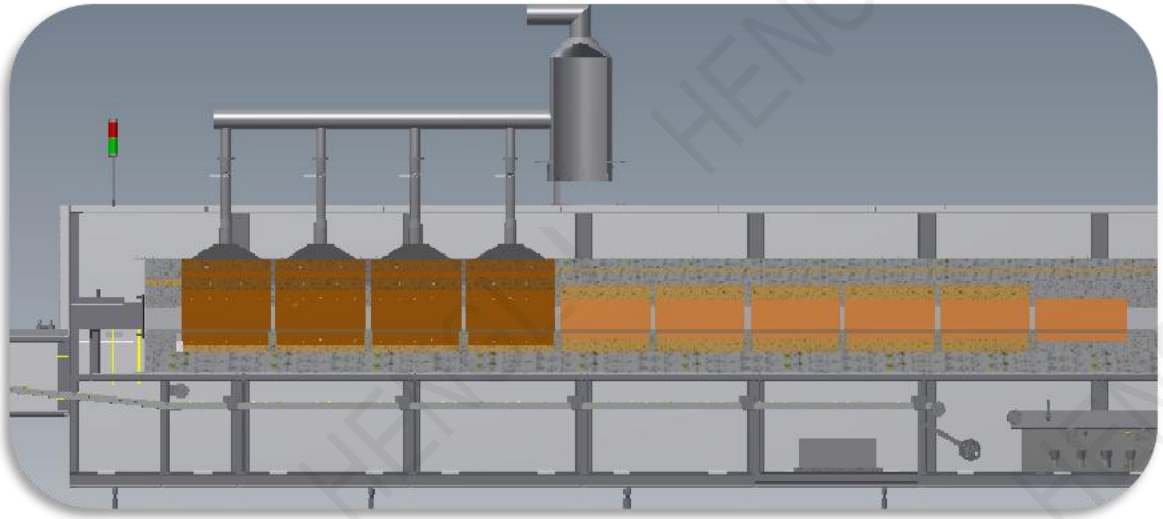
Wax removal and vitrification process curve







Wax removal and vitrification furnace



Product Features:

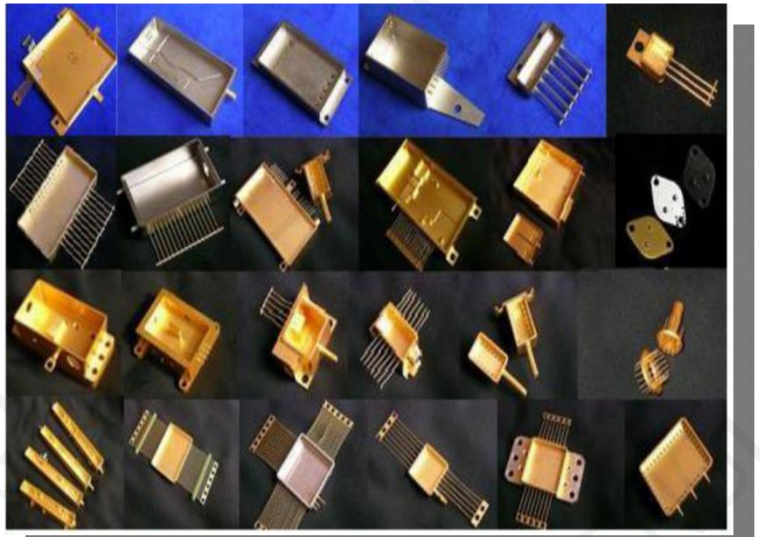
Lightweight furnace material, accurate temperature control, high efficiency and energy saving; unique cavity structure design of wax discharge area, uniform and stable atmosphere, rapid wax discharge, high rate of vitrified product.

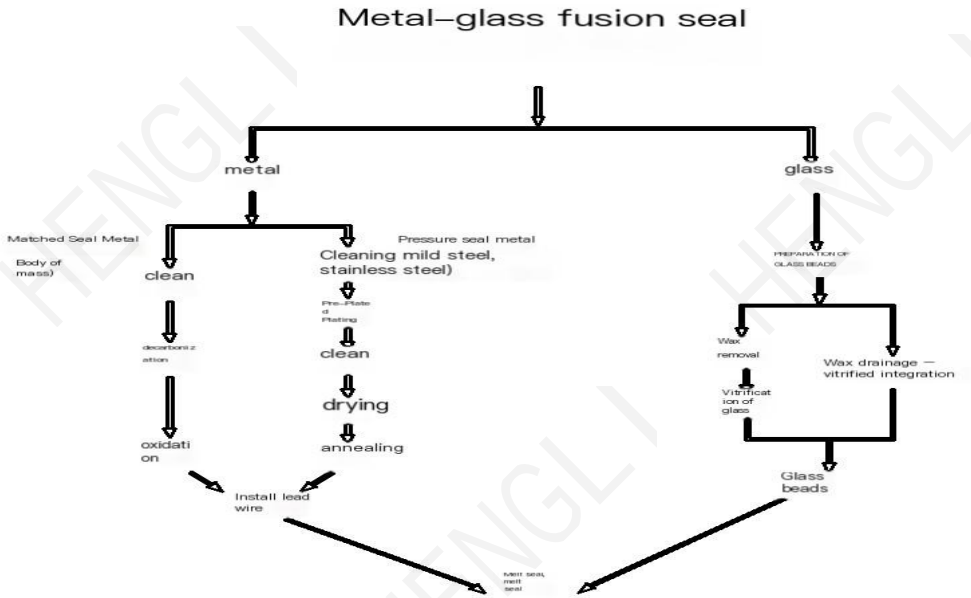
Series	Belt width (mm)	Temperature zone	Temperature zone length (mm)	Highest temperature zone (℃)	Effective height (mm)	Atmosphere
HSK	200mm	9	450	750	70mm	air

Glass to metal sealing furnace

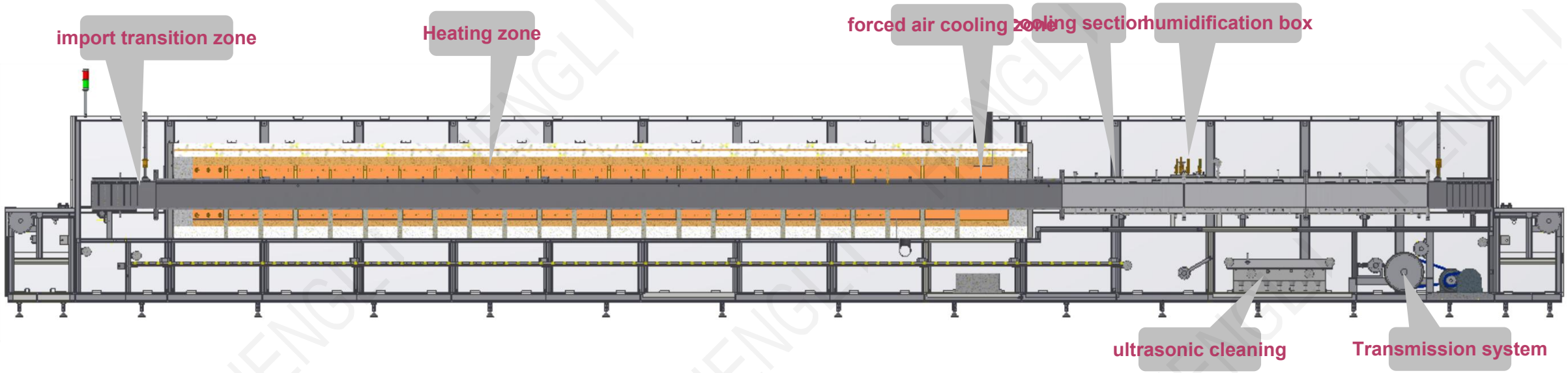
Application:

It is mainly used for the high-temperature sealing process of metal and glass.





Glass to metal sealing furnace



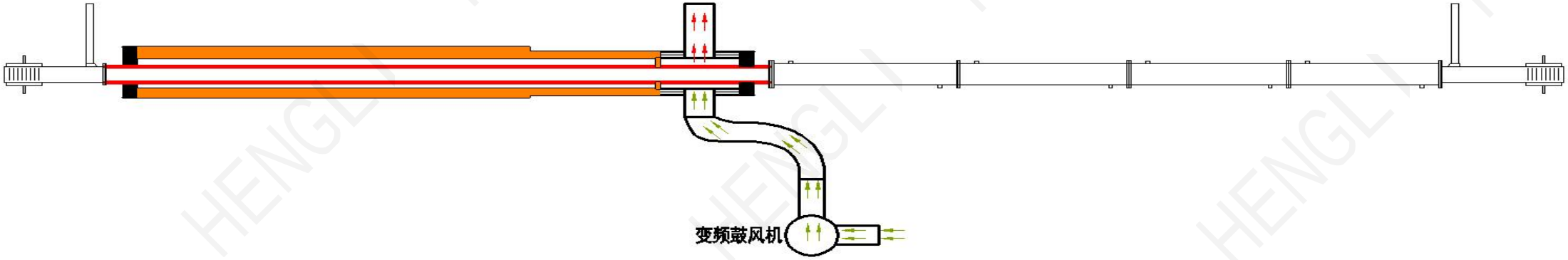
Product Features:

Lightweight furnace material, accurate temperature control, energy efficiency; controllable temperature rise and fall rate; unique muffle structure and atmosphere system, with stable and adjustable melting and sealing atmosphere, suitable for sealing a variety of metal shell materials

series of	Belt width (mm)	temperature control zone	Temperature zone length (mm)	Highest temperature zone (℃)	Effective height (mm)	atmosphere
HSA	150-350mm	7-10	300/450	1050	50-200mm	nitrogen gas

Key Technologies of Glass to Metal Sealing Furnace

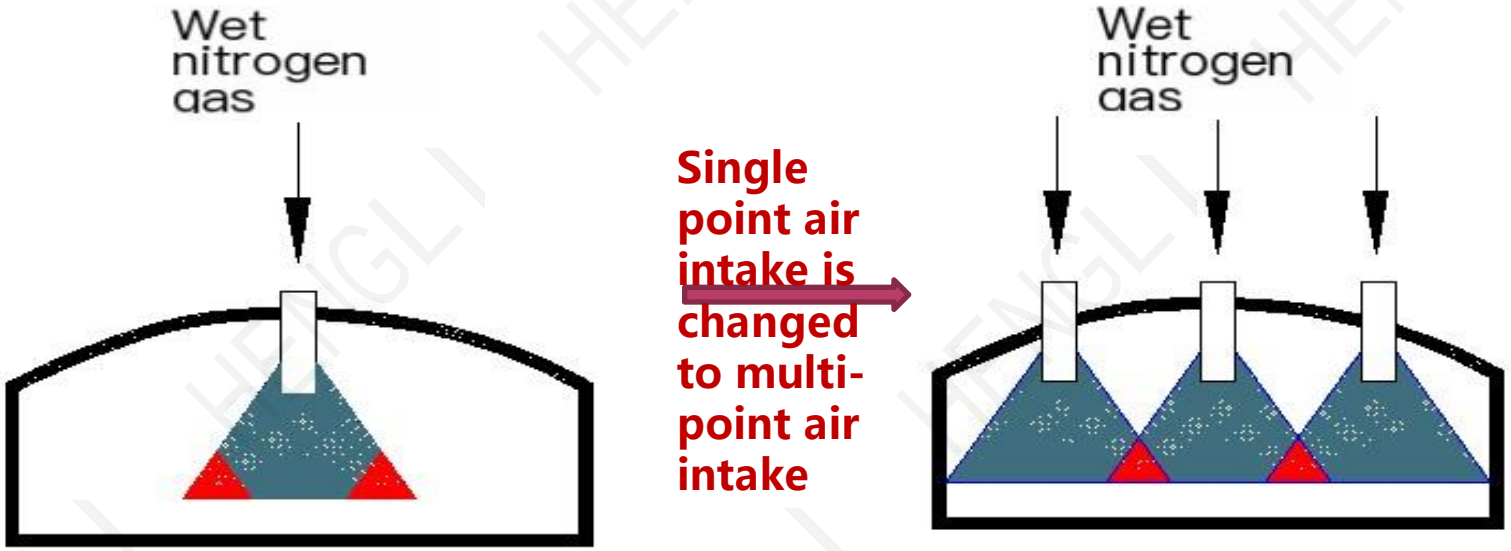
1. Controllable temperature rise and drop rate technology



1. Increase the power density in the temperature rise zone
2. Set up a forced air cooling system in the cooling zone

Key Technologies of Glass to Metal Sealing Furnace

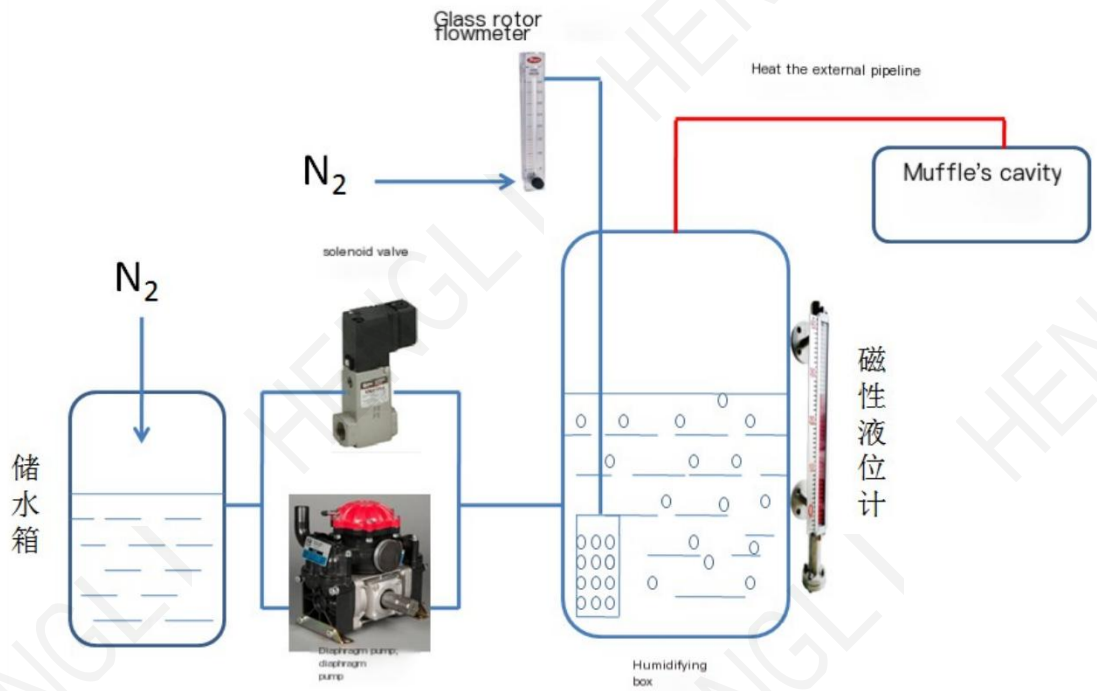
2. Oxidation consistency technology for metal shell



The design and layout of the wet nitrogen inlet structure are the key to ensuring uniform oxidation of the product.

Key Technologies of Glass to Metal Sealing Furnace

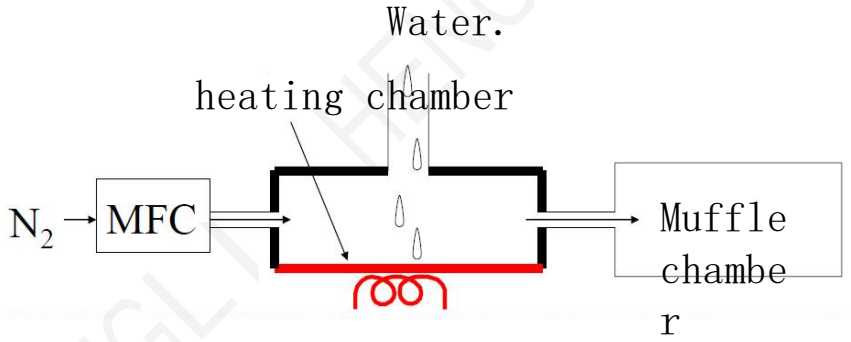
3. Humidification technology



Schematic diagram of humidification system

- Automatic water filling function
- All humidification pipelines have an external heating function, which is not affected by external environment

If the customer requires precise control of water flow, they can use the CEM humidification system, with the following specific principles

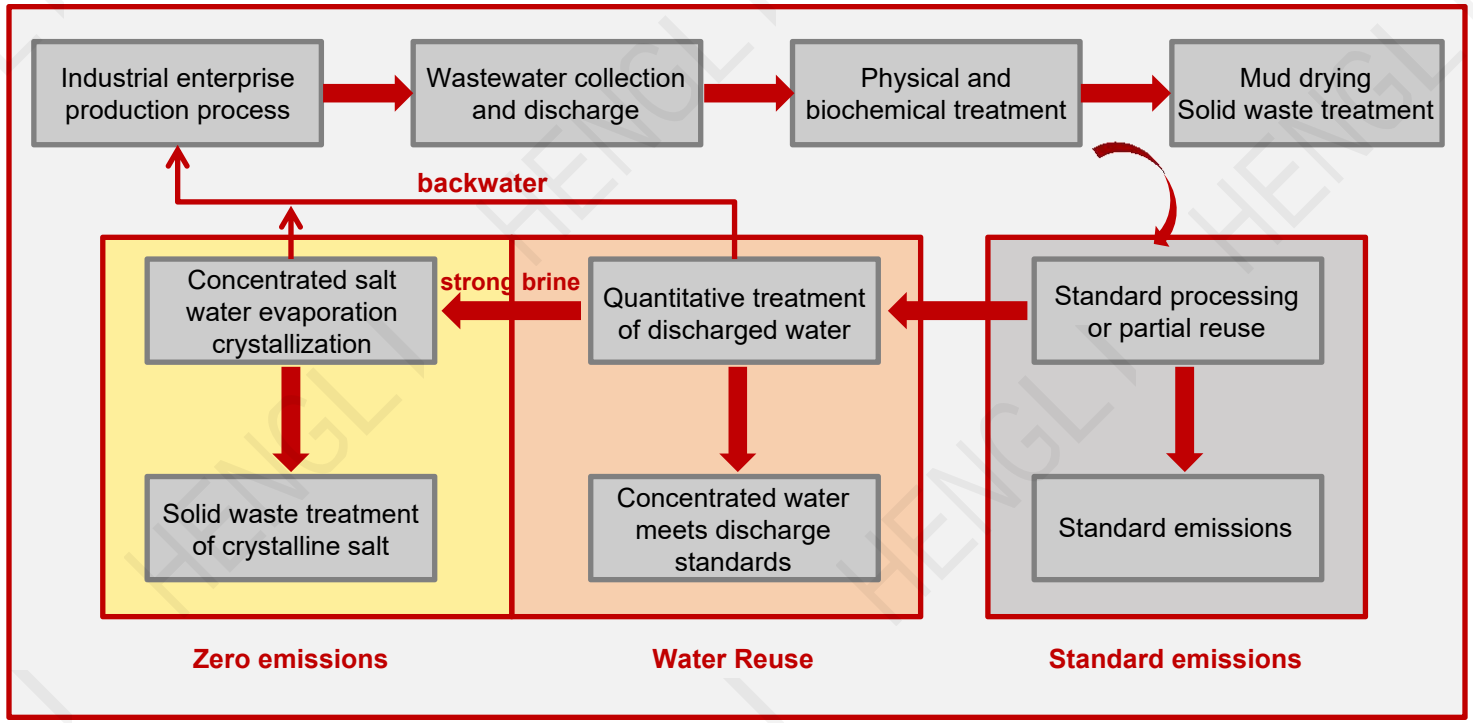


CEM Humidification System

Intelligent electroplating production line —— Hanging plating

- **Application field:** Suitable for wet chemical surface treatment production such as hanging plating and oxidation of products in electronics, semiconductors, medical, transportation, power, hardware, military industries, etc.
- **Advantages and features:** fully automatic operation, intelligent flexibility, mixed plating production, process support, green environmental protection.

Industrial wastewater zero discharge treatment system —— Introduction



“Zero discharge "of industrial wastewater

——It is a systematic wastewater treatment solution

It is mainly divided into three system designs:

I.Front optimized emission reduction and classification;

II.Intermediate wastewater pretreatment and reduction (80% - 95% recycled reclaimed water) ;

III.End evaporative crystallization of strong brine (100% recycled) ;

Scope of application :

Industrial wastewater treatment with complex composition

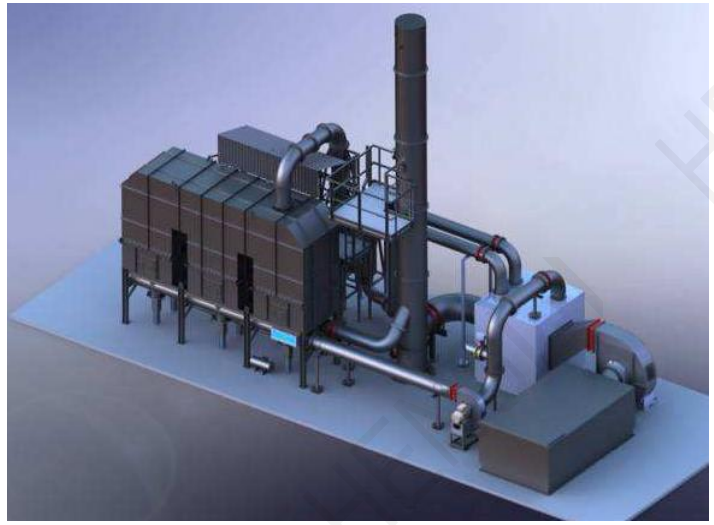
Application field:

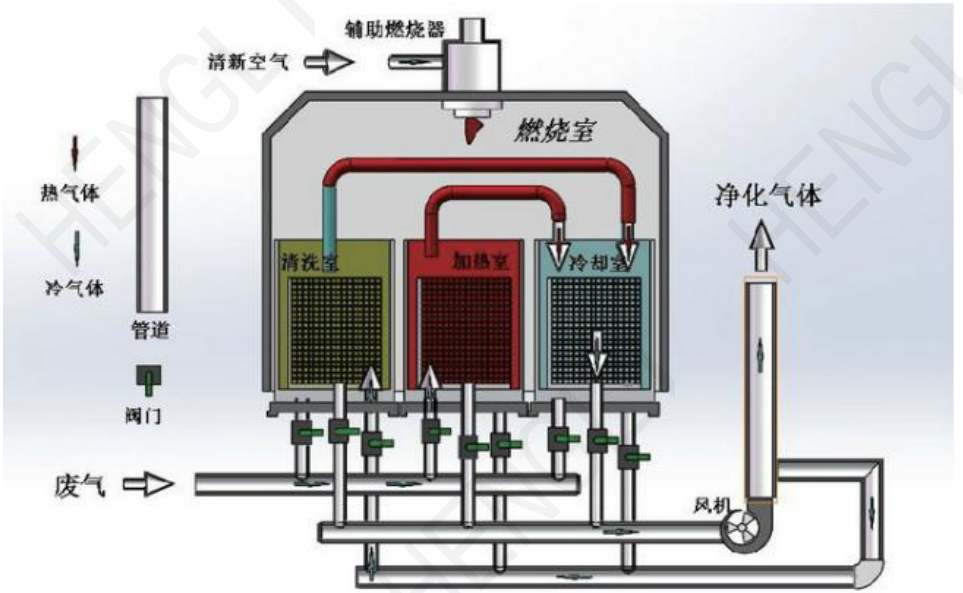
Electroplating wastewater treatment, chemical wastewater treatment and new material wastewater treatment

Industrial wastewater zero discharge treatment system —— Online reuse of reclaimed water

- **Scope of application:** The core key equipment of waste water reduction realizes nearly 90% reduction of waste water and recycling of reclaimed water through online configuration of ion exchange resin equipment and membrane treatment equipment
- **Advantages and features:** **Through reclaimed water recycling technology, water consumption can be reduced by 60% - 70%**
- **Application field:** Used in surface treatment, electronic industry and chemical industry wastewater production wastewater recycling system

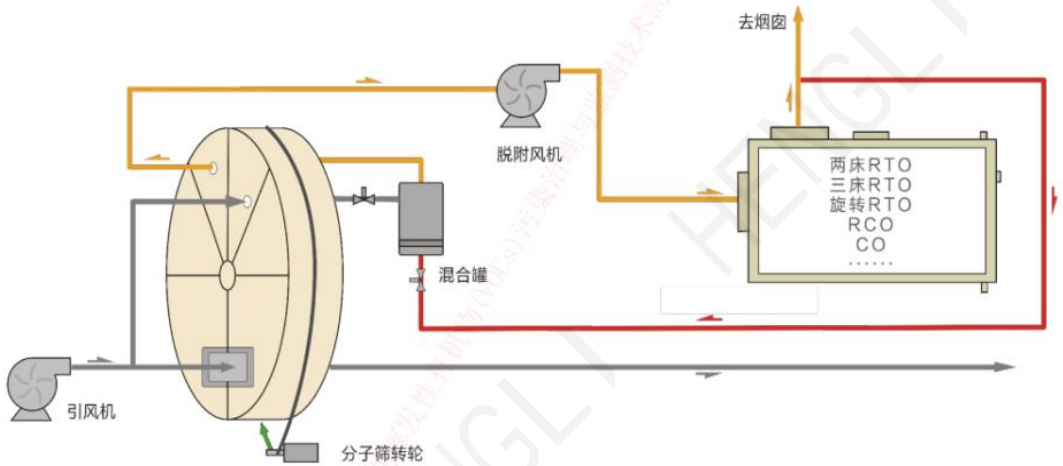
Industrial waste gas treatment system —— Regenerative Thermal Oxidation (RTO)

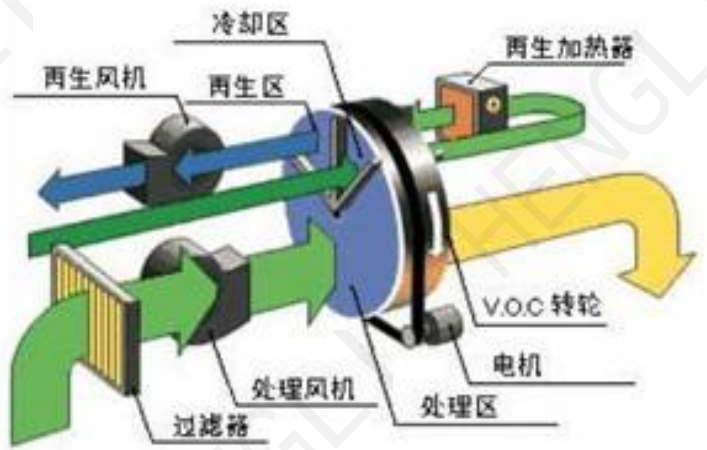




- **Advantages and features:** The purification efficiency of RTO equipment is over 97%, with high efficiency heat exchange and energy conservation, and the thermal efficiency is over 90%, with high degree of automation.
- **Scope of application:** It is applicable to the waste gas containing VOCs of low and medium concentration in large air volume with a treatment capacity of no less than 10000 Nm3/h and a concentration of no more than 3000 mg/Nm3.
- **Application field:** Chemical industry, spraying, drying room, printing, medicine, electronic manufacturing, light industry, metallurgy and other industries.

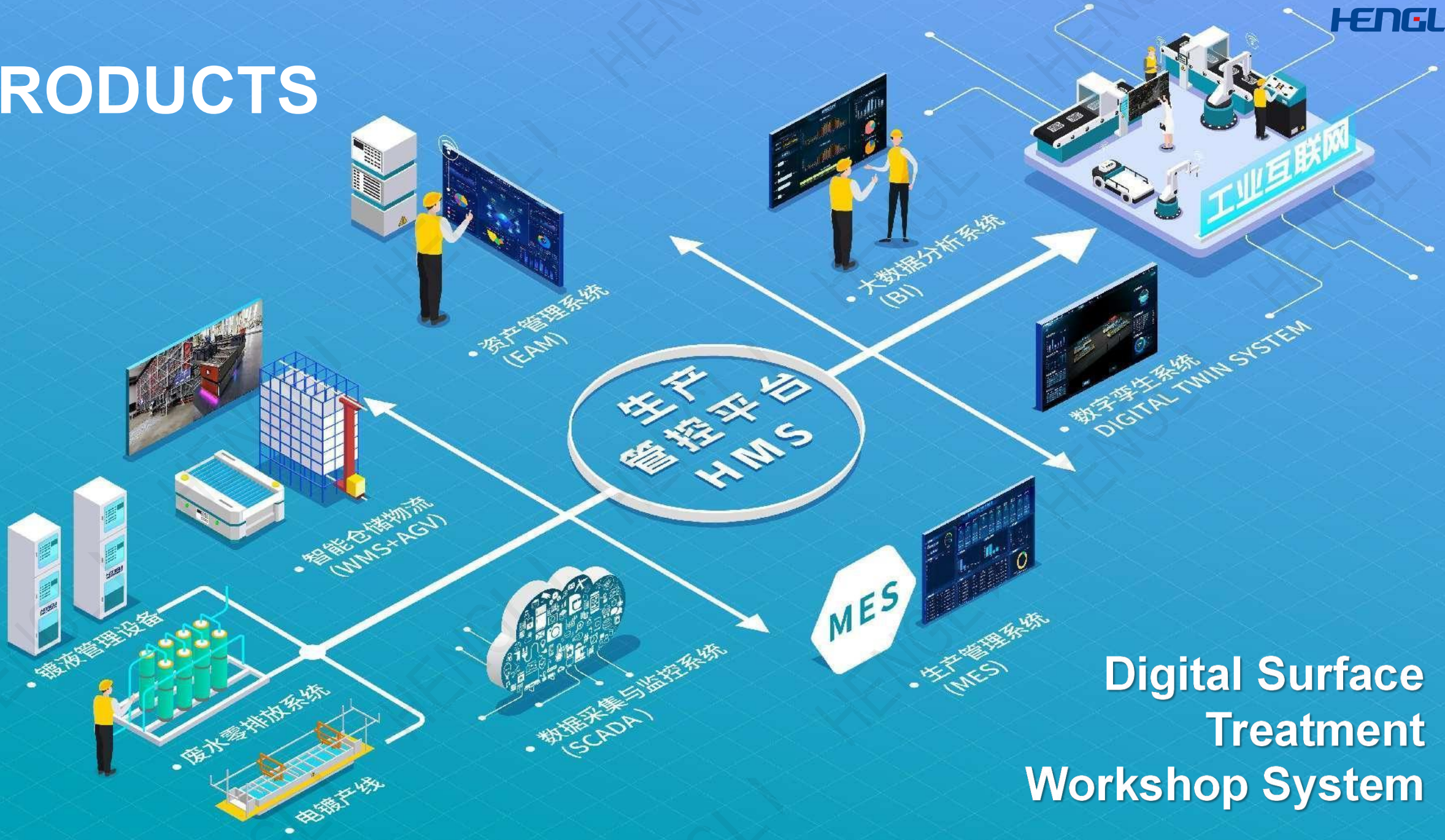
Industrial waste gas treatment system —— Zeolite rotary adsorption concentration





- **Advantages and features:** Modular design, safe desorption, suitable for front concentration of low-concentration and high-volume VOCs waste gas.
- **Scope of application:** Organic waste gas flow is higher than 10000 Nm3/h; The concentration is less than 1000mg/m3; Subsequent connection to direct-fired furnace, RTO or CO treatment, suitable for treatment of low concentration and large amount of organic waste gas.
- **Application field:** Painting, printing, electronic sintering, semiconductor manufacturing, lithium battery industry, surface coating production, etc.

PRODUCTS



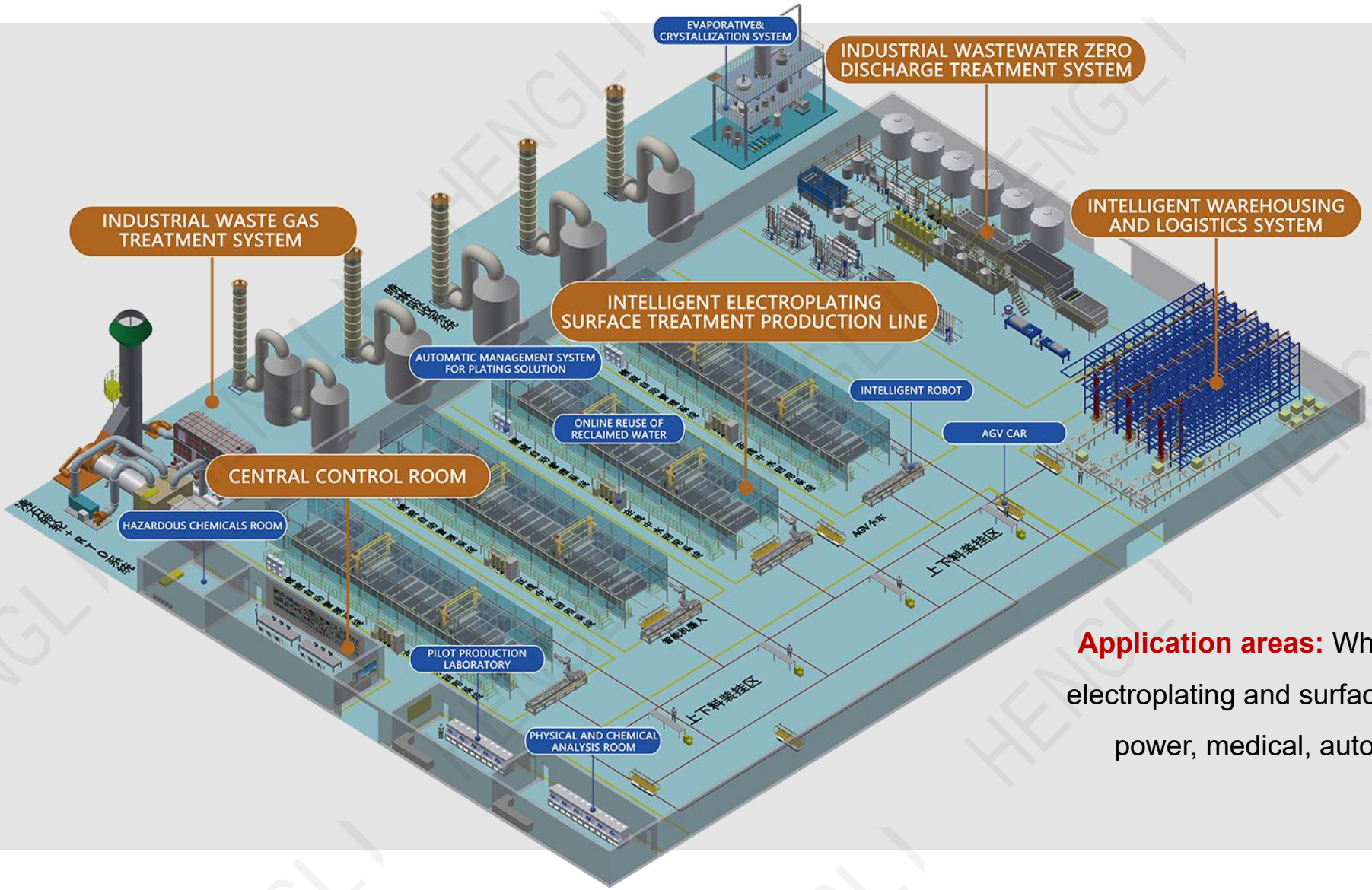
Digital Surface Treatment Workshop System

Digital Surface Treatment Workshop System —— Introduction

Digital surface treatment workshop

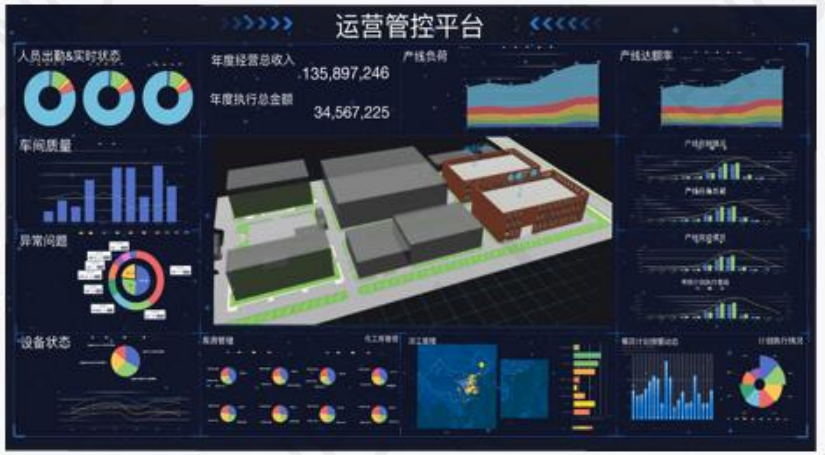
——Sensor, Internet of Things and other technologies cover automatic electroplating production line, waste water treatment, waste gas treatment and other equipment to realize the information Internet of Things function of the whole production workshop;

Digital Surface Treatment Workshop System —— Introduction



Application areas: Whole factory construction of electroplating and surface treatment for electronic, power, medical, automotive, hardware, military and other products.

Digital Surface Treatment Workshop System —— Digitization of production process



Digital Surface Treatment Workshop System —— Targets

Efficient production

Green, energy-saving, and pollution-free

Intelligence

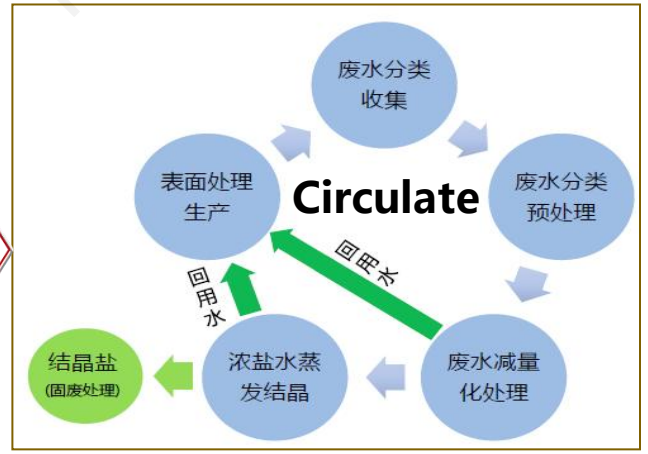
Zero emissions

High quality production

Landing of plating production line

Zero emission intelligent electroplating factory

The workshop does not discharge dripping water and the system runs intelligently



04

Part

SERVICES

Best service for our customers

Customer-oriented service

- Customers are very happy with our service and support that they keep coming back for more furnace equipment from HENGLI
- We arrange regular follow up services at the 1st, 3rd , 6th, and 12th month after installation

7/24	**All year around**

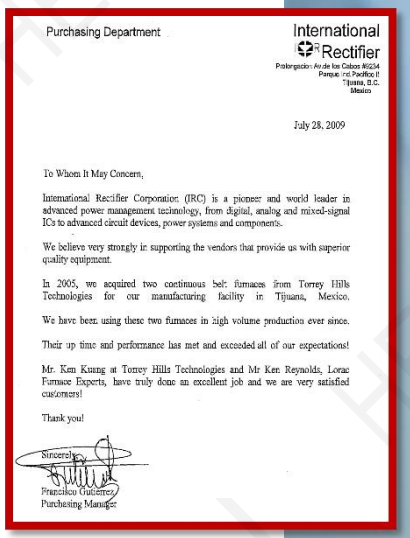
Letter of Satisfaction

"In 2005, we acquired two continuous belt furnaces from Torrey Hills Technologies for our manufacturing facility in Tijuana, Mexico.

We have been using these two furnaces in high volume production ever since.

Their up time and performance has met and exceeded all of our expectations!"

---International Rectifier



Purchasing Department

International
Rectifier
Prolongación Av.de los Cabos #6634
Parque Ind.Pacífico II
Tijuana, B.C.
Mexico

July 28, 2009

To Whom It May Concern,

International Rectifier Corporation (IRC) is a pioneer and world leader in advanced power management technology, from digital, analog and mixed-signal ICs to advanced circuit devices, power systems and components.

We believe very strongly in supporting the vendors that provide us with superior quality equipment.

In 2005, we acquired two continuous belt furnaces from Torrey Hills Technologies for our manufacturing facility in Tijuana, Mexico.

We have been using these two furnaces in high volume production ever since.

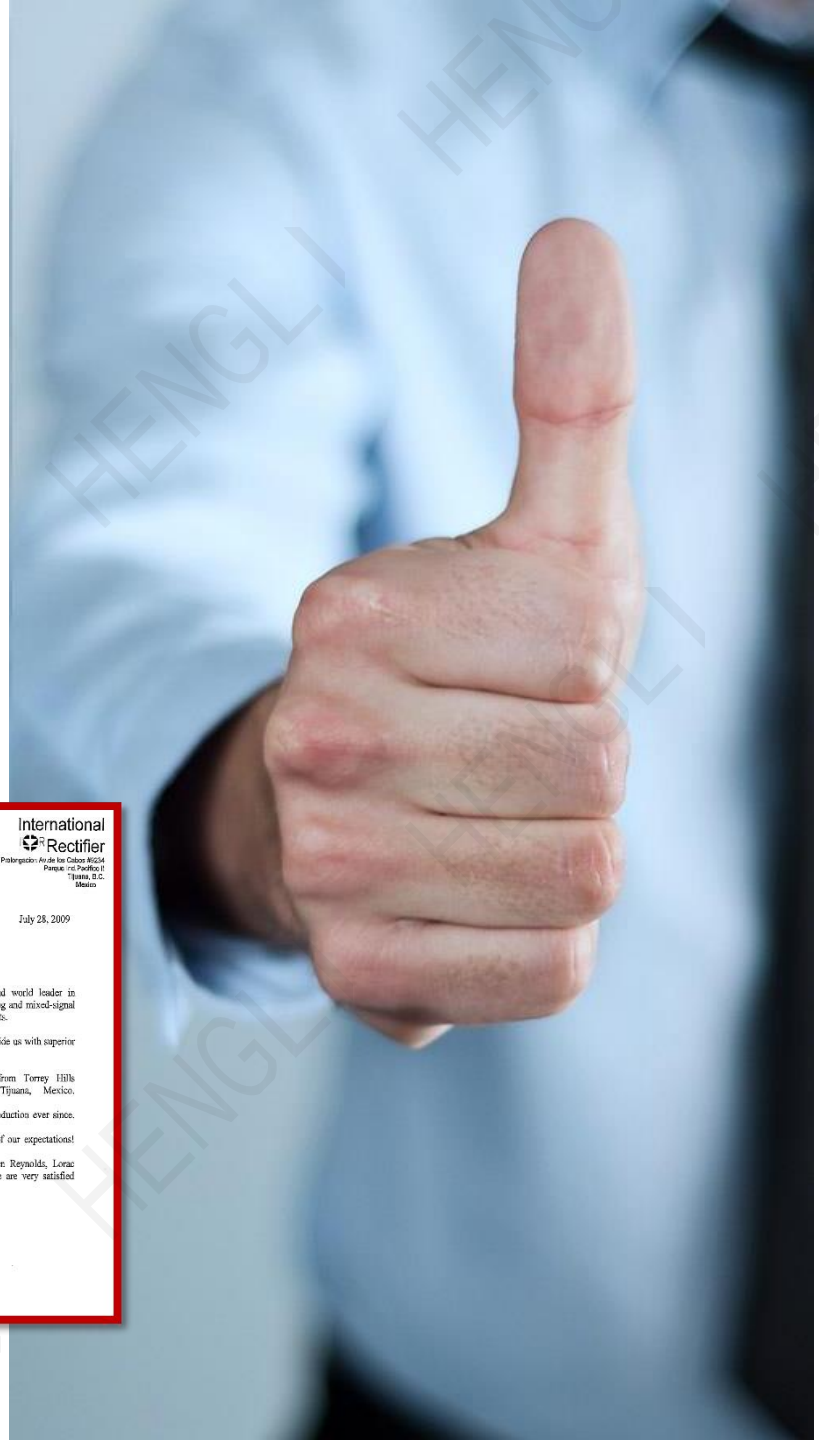
Their up time and performance has met and exceeded all of our expectations!

Mr. Ken Kuang at Torrey Hills Technologies and Mr Ken Reynolds, Lonac Furnace Experts, have truly done an excellent job and we are very satisfied customers!

Thank you!

Sincerely,

Francisco Gutierrez
Purchasing Manager



HENGLI HELPS YOU SUCCESS

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