



Hengli Product application

SMART EQUIPMENT GREEN DEVELOPMENT

CONTENT

- 1**  **Company Profile**
- 2**  **Milestones**
- 3**  **Products**
- 4**  **Services**

Dedicated Equipment and System Integration Service Provider



Hengli Eletek Co.,Ltd. is a wholly-owned company of the 43rd Research Institute of CETC, established in 1992, We are deeply involved in three major fields: electric heating equipment, environmental protection and surface treatment equipment and intelligent equipment. With leading technology and excellent quality, its brand influence and market share have continued to lead. Hefei Hengli adheres to technological innovation and market leadership, creating more value for customers and promoting high-quality progress in the industry.

300+ PATENT

50000m² BASE

3000+ CUSTOM

10000+ EQUIPMENT

Application



TO shell



Metal tube shell



Ceramic shell



Bullet shell



Missile shell



Radar panel



Piston ring



Piston rod

 HENGLI

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

**2009**

Sales was over 10
million.

**2010**

HENGLI Technologies
renamed to HENGLI
ELETEK

**2021**

Accumulated construction of
thousands of intelligent
electroplating production lines

**FUTURE****2004**

The 1st furnace was
exported to
EUROPE

**2005**

Undertake the construction of
the entire electroplating
surface treatment workshop

**2020**

Moving to No.28
Hehuan Road Hefei
Hengli Industrial Park

**2022**

Sales was over one billion
Export products more than
30 countries

03

Part

PRODUCTS

⑥ 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

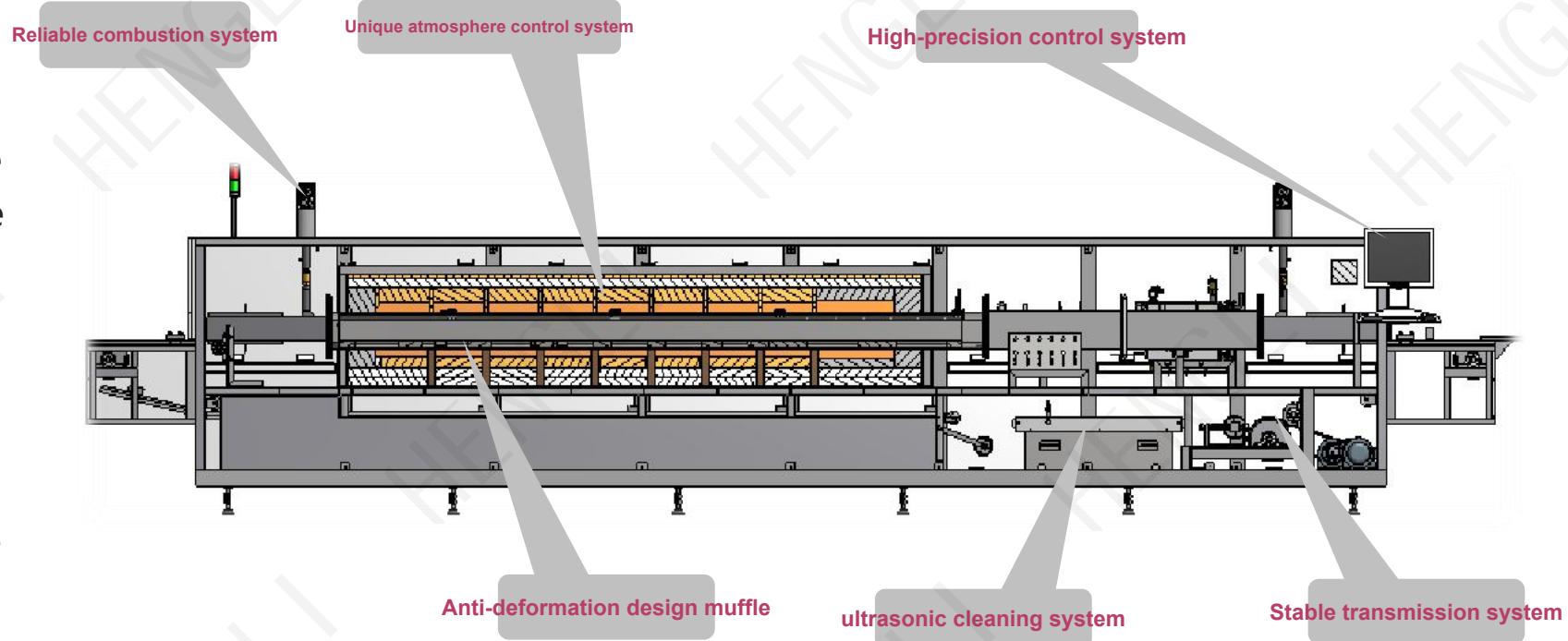
Process flow diagram of high temperature brazing



⑥ High-temperature brazing furnace

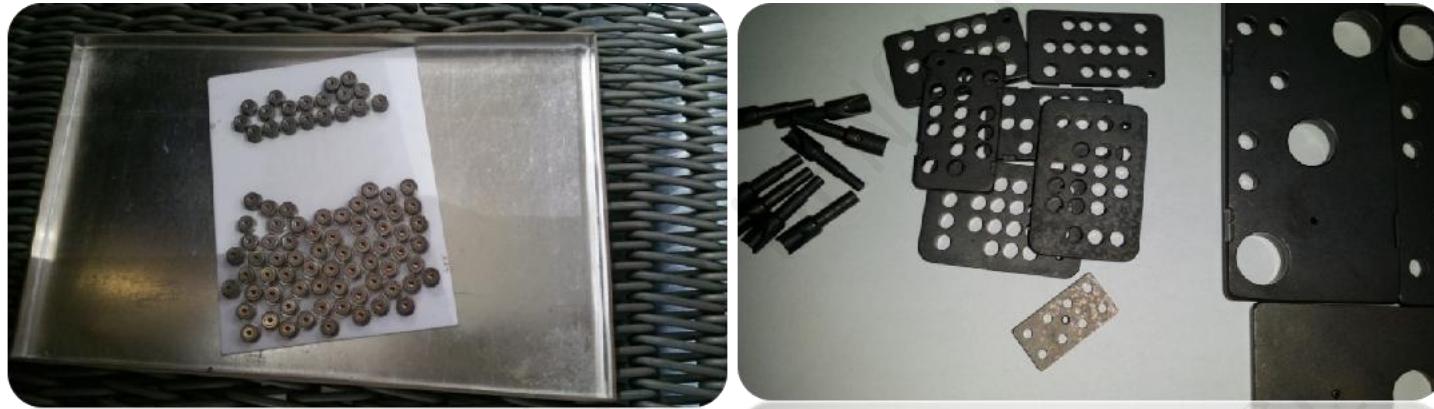
Product Features:

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.

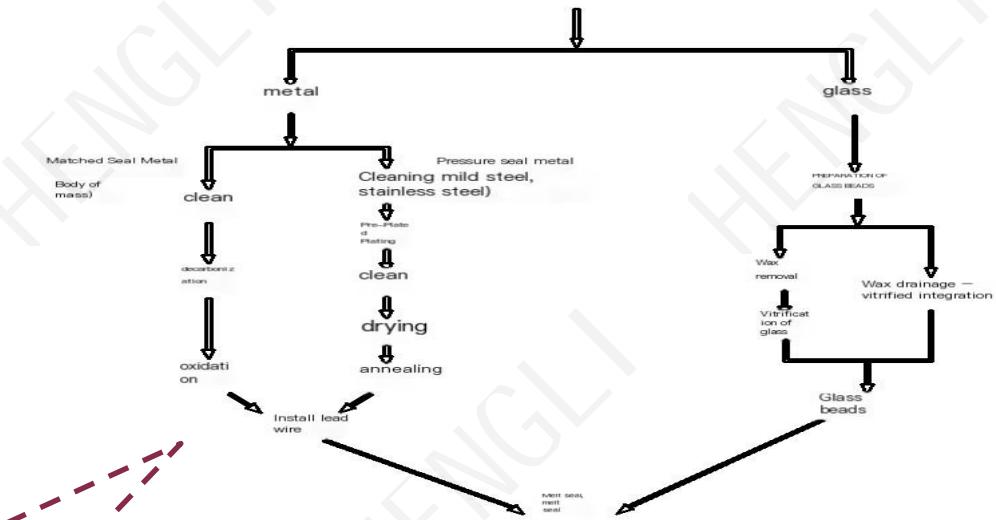


Series	Belt width (mm)	Temperature zone	Temperature zone length (mm)	Highest temperature zone (°C)	Effective height (mm)	Temperature uniformity (°C)	Atmosphere
HSA	100-400mm	8-10	300/330/450/600	1200	50-100mm	±1 ~ 2	N2+H2

⑥ Oxidation furnace



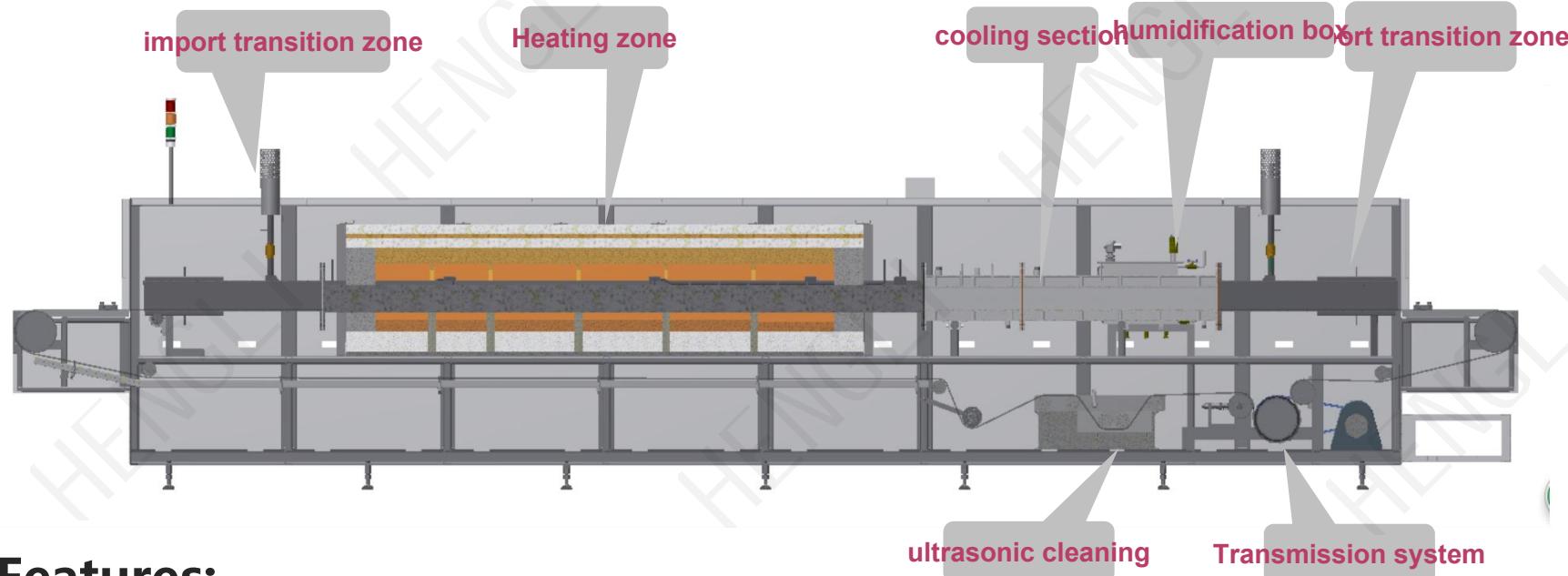
Metal–glass fusion seal



Application:

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

⑥ Oxidation furnace

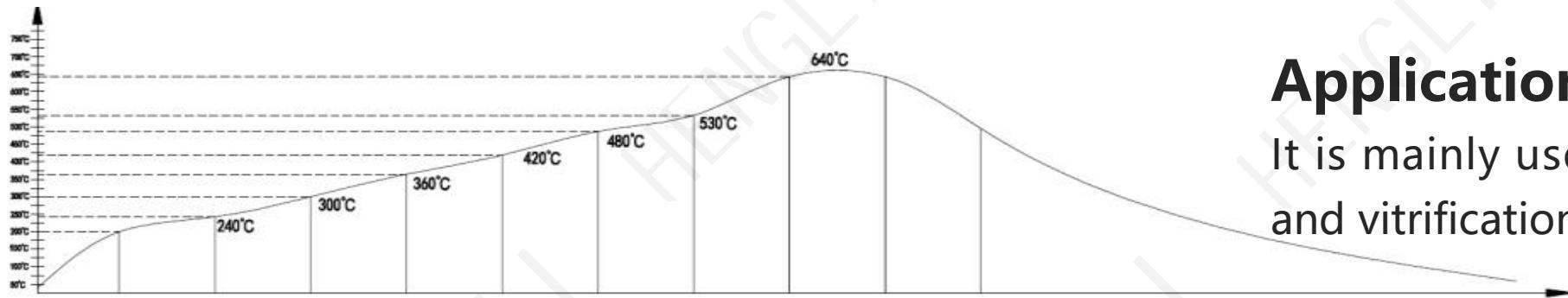


Product Features:

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 (°C)	Effective height (mm)	Atmosphere
HSA	150-200mm	4-5	300/450	1050	50-150mm	nitrogen gas

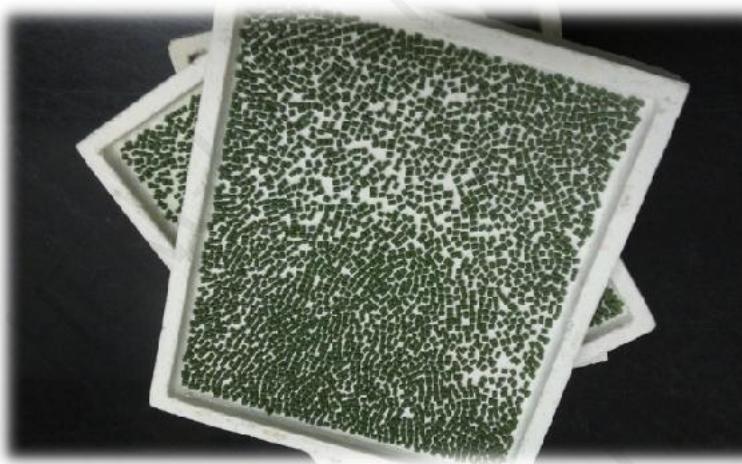
⑥ Wax removal and vitrification furnace



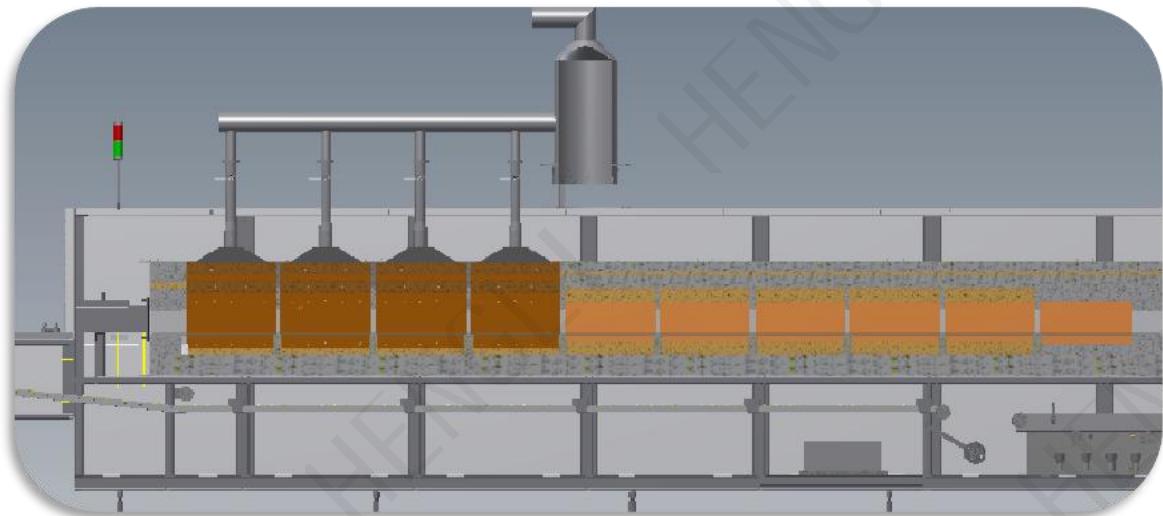
Wax removal and vitrification process curve

Application areas:

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



⑥ Wax removal and vitrification furnace



Product Features:

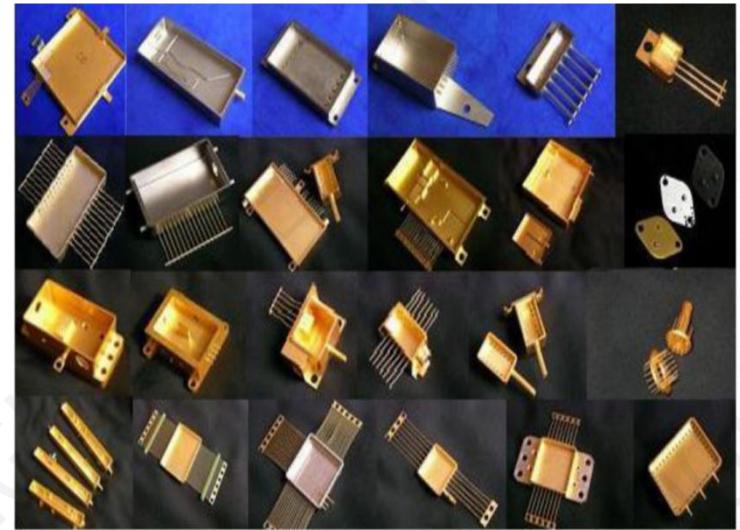
Lightweight furnace material, accurate temperature control, high efficiency and energy saving; unique cavity structure design of wax discharge area, uniform and stable atmosphere, rapid wax discharge, high rate of vitrified product.

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

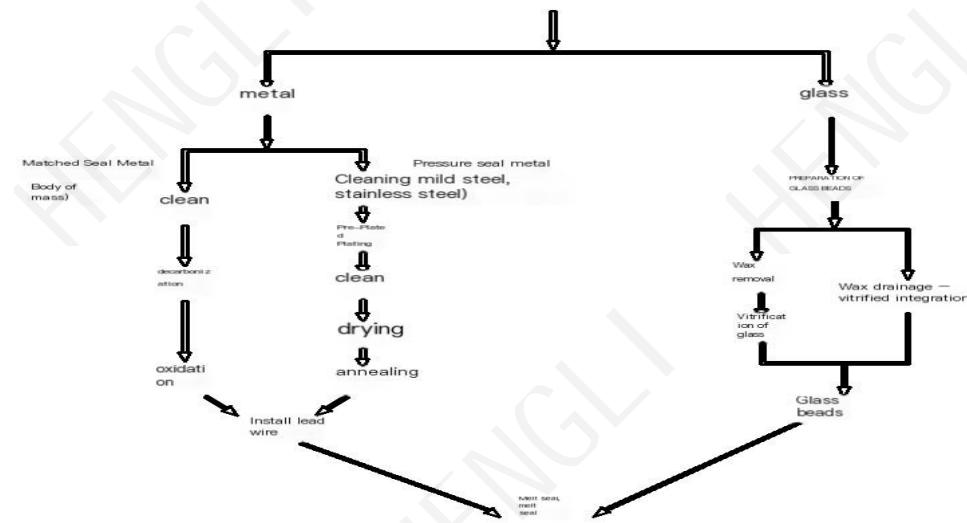
⑥ Glass to metal sealing furnace

Application:

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



Metal-glass fusion seal



Glass to metal sealing furnace



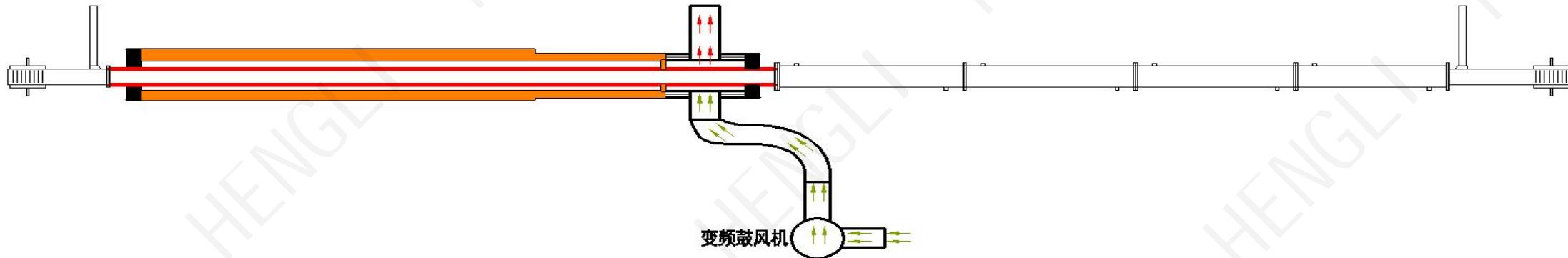
Product Features:

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 (°C)	Effective height (mm)	atmosphere
HSA	150-350mm	7-10	300/450	1050	50-200mm	nitrogen gas

⑥ Key Technologies of Glass to Metal Sealing Furnace

1. Controllable temperature rise and drop rate technology

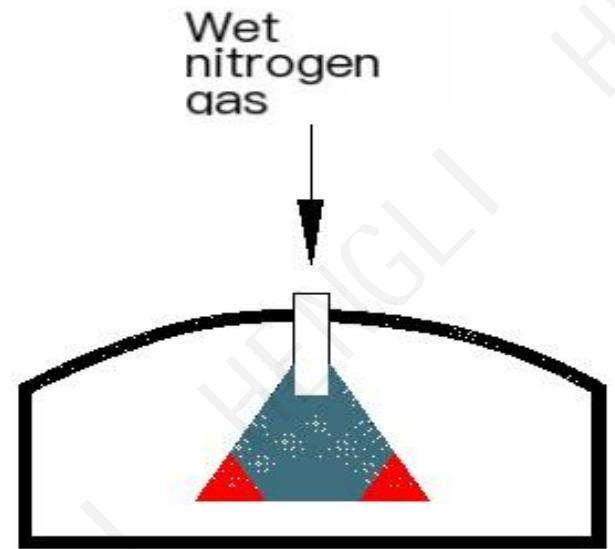


1. Increase the power density in the temperature rise zone
2. Set up a forced air cooling system in the cooling zone

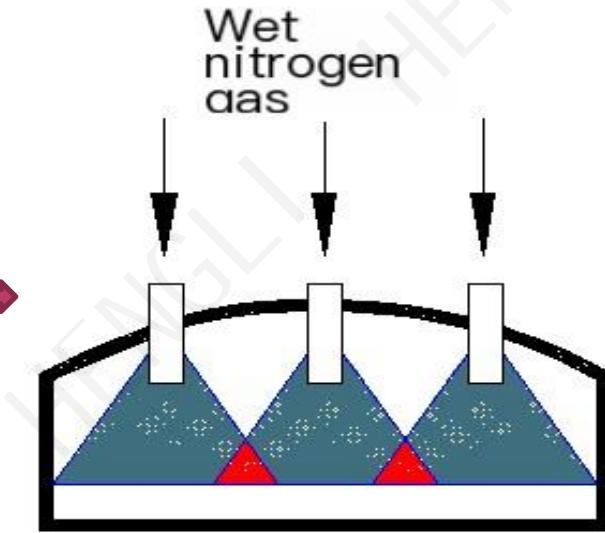
⑥ Key Technologies of Glass to Metal Sealing Furnace



2. Oxidation consistency technology for metal shell



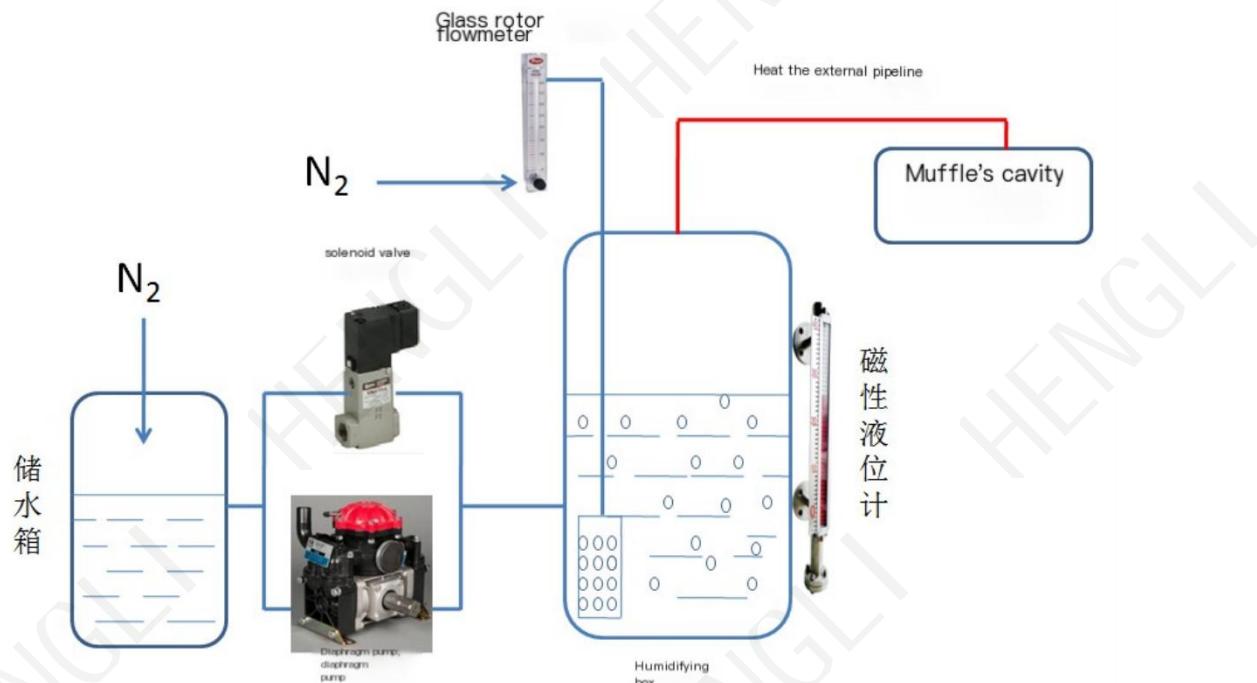
Single point air intake is changed to multi-point air intake



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

⑥ Key Technologies of Glass to Metal Sealing Furnace

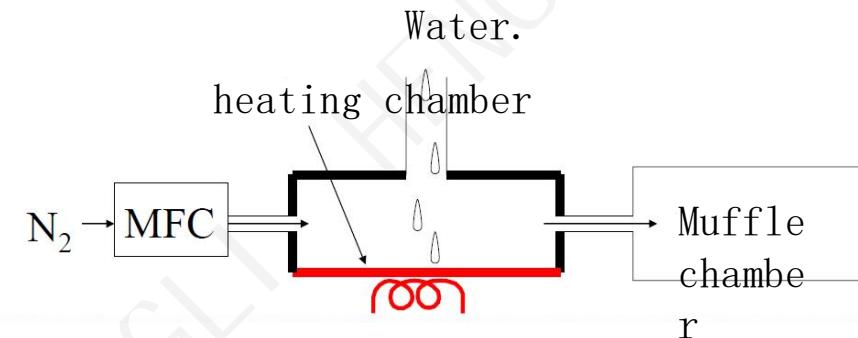
3. Humidification technology



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



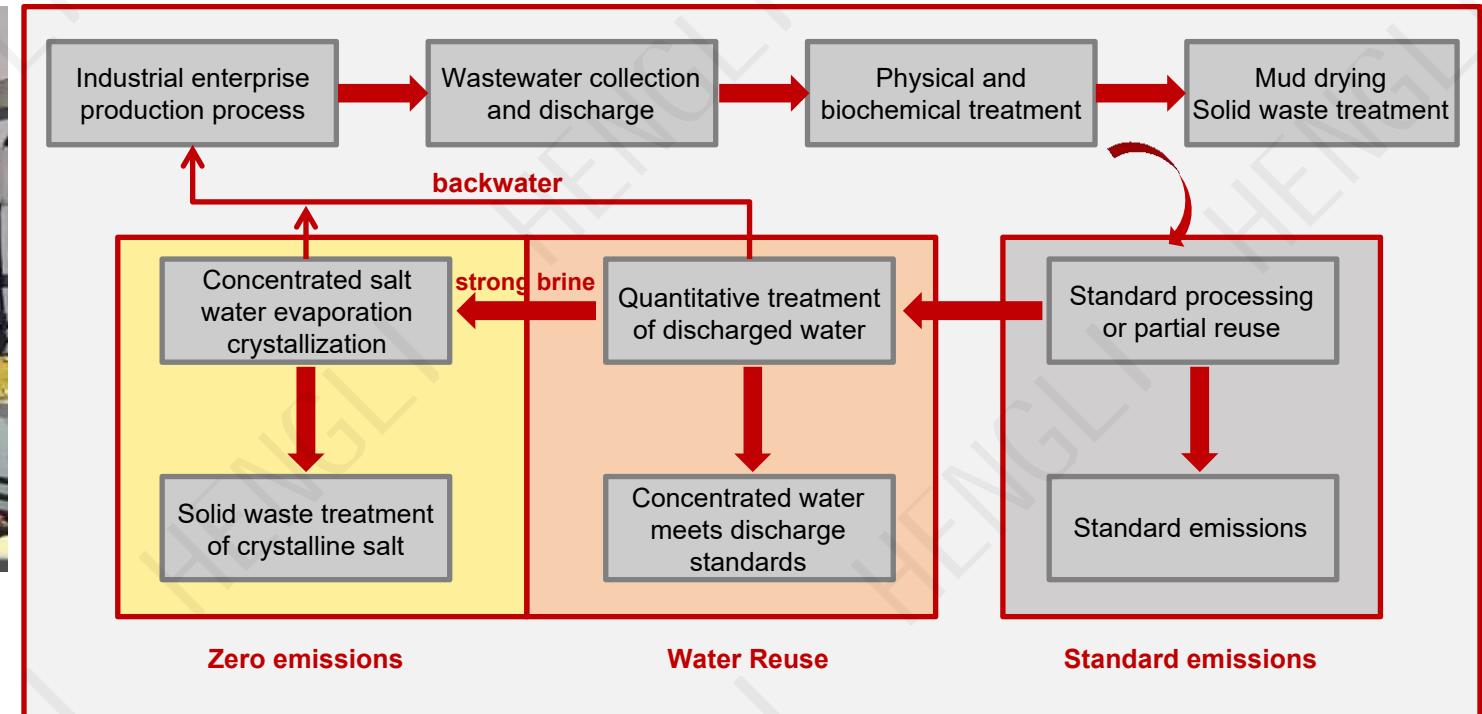
CEM Humidification System

⑥ 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.

⑥ 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:

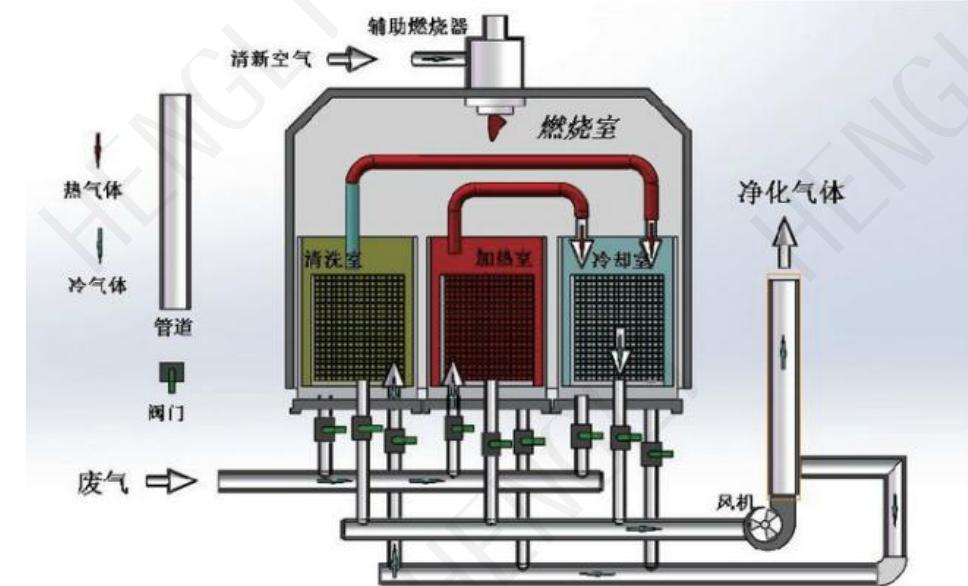
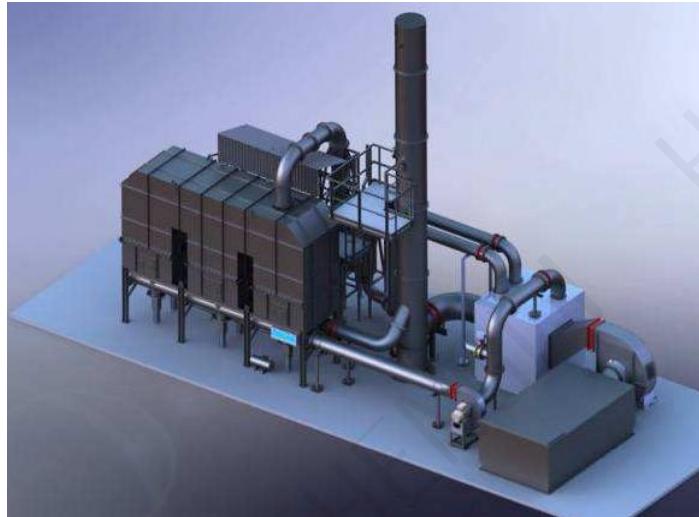
Electroplating wastewater treatment, chemical wastewater treatment and new material wastewater treatment

⑥ Industrial wastewater zero discharge treatment system —— Online reuse of reclaimed water



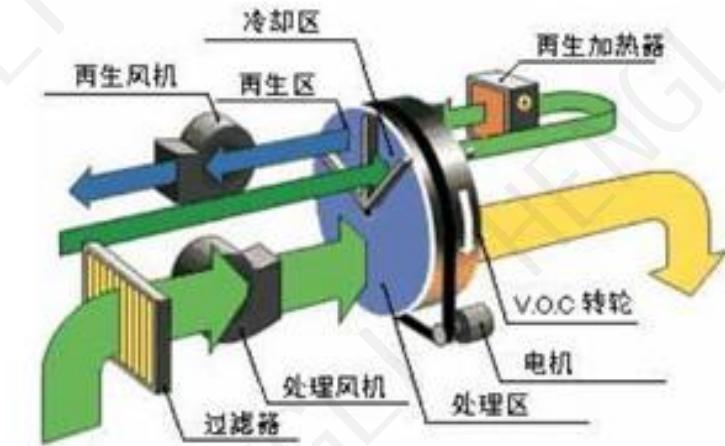
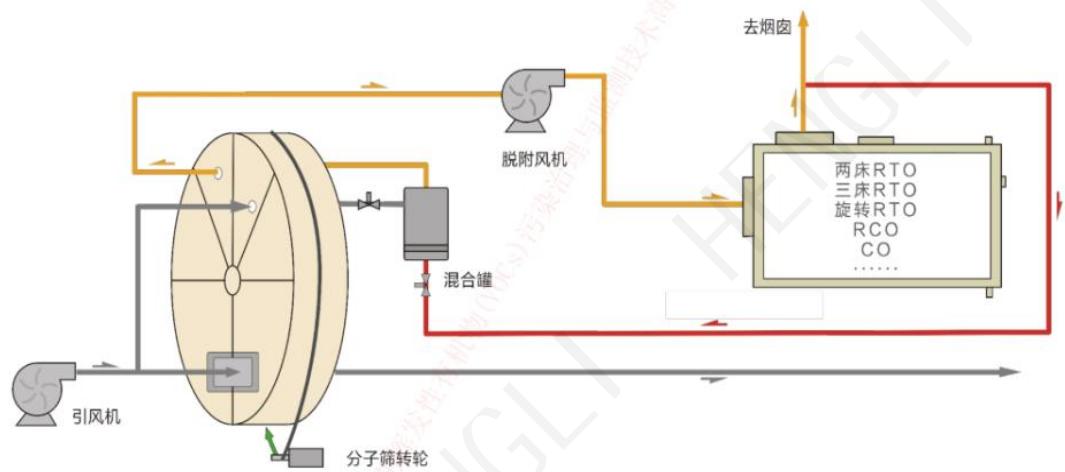
- **Scope of application:** The core key equipment of waste water reduction realizes nearly 90% reduction of waste water and recycling of reclaimed water through online configuration of ion exchange resin equipment and membrane treatment equipment
- **Advantages and features:** Through reclaimed water 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

⑥ Industrial waste gas treatment system —— Regenerative Thermal Oxidation (RTO)



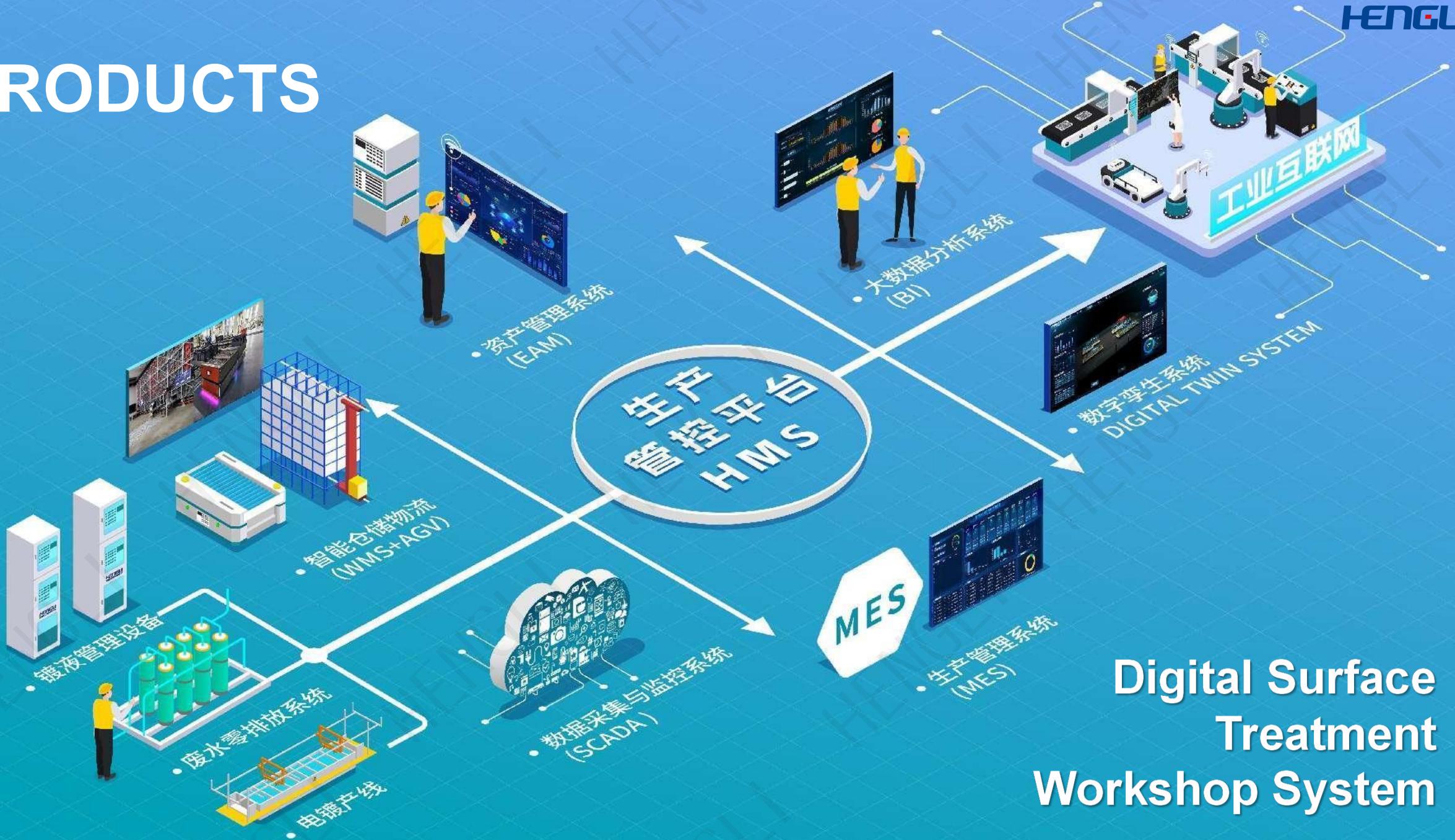
- **Advantages and features:** The purification efficiency of RTO equipment is over 97%, with high efficiency heat exchange and energy conservation, and the thermal efficiency is over 90%, with high degree of automation.
- **Scope of application:** It is applicable to the waste gas containing VOCs of 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.

⑥ Industrial waste gas treatment system —— Zeolite rotary adsorption concentration



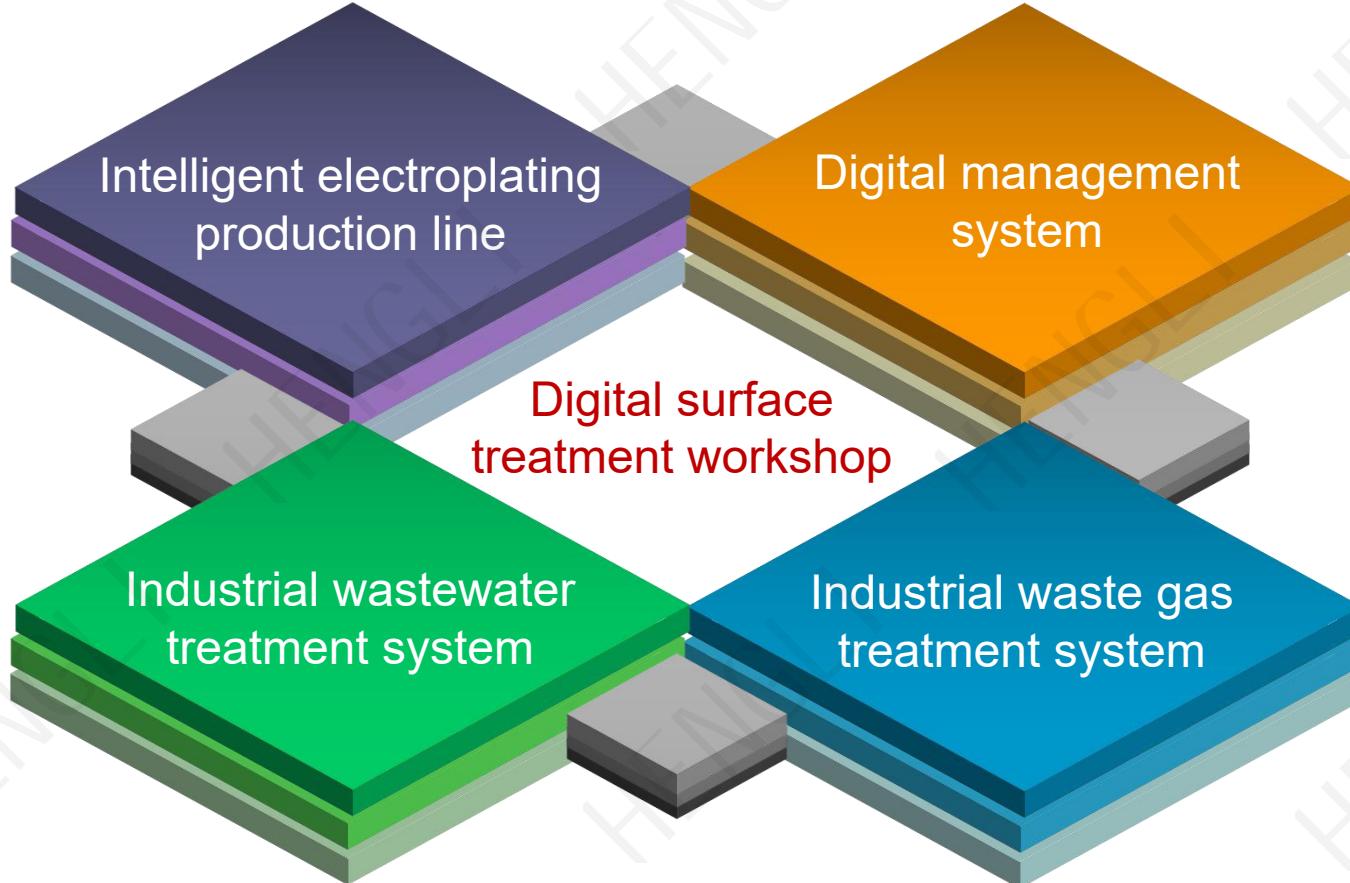
- **Advantages and features:** Modular design, safe desorption, suitable for front concentration of low-concentration and high-volume VOCs waste gas.
- **Scope of application:** Organic waste gas flow is higher than 10000 Nm³/h; The concentration is less than 1000mg/m³; Subsequent connection to direct-fired 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

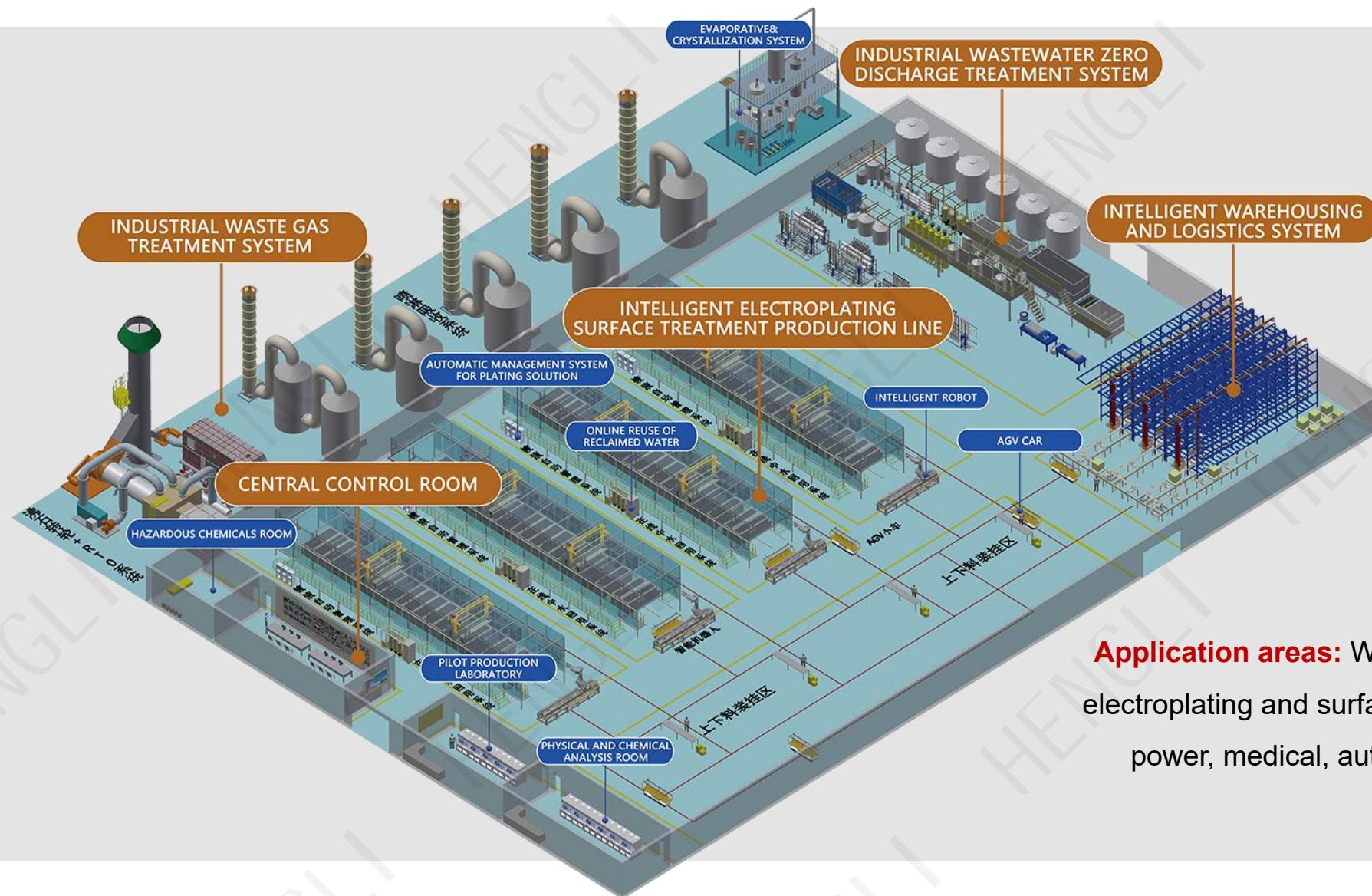
⑥ Digital Surface Treatment Workshop System —— Introduction



Digital surface treatment workshop

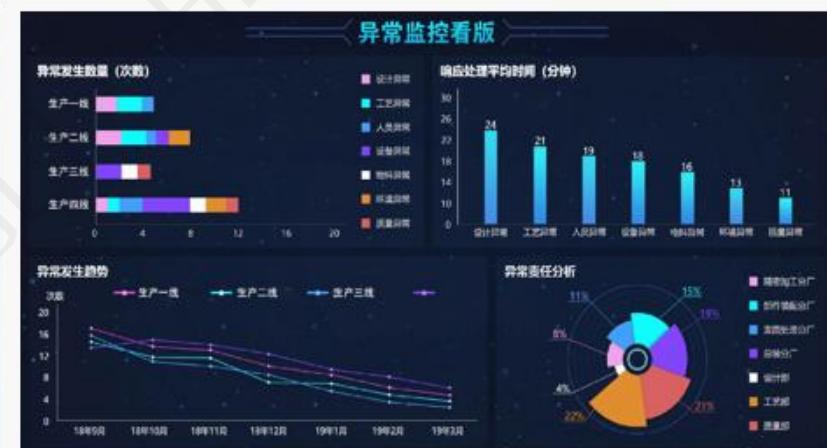
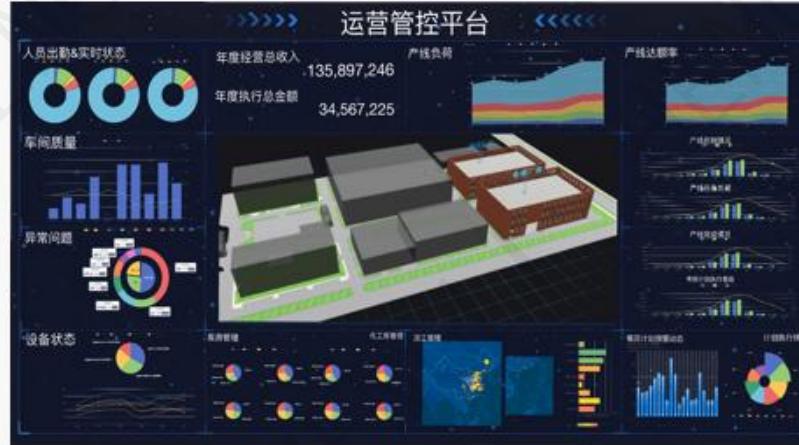
—Sensor, Internet of Things and other technologies cover automatic electroplating production line, waste water treatment, waste gas treatment and other equipment to realize the information Internet of Things function of the whole production workshop;

⑥ Digital Surface Treatment Workshop System —— Introduction

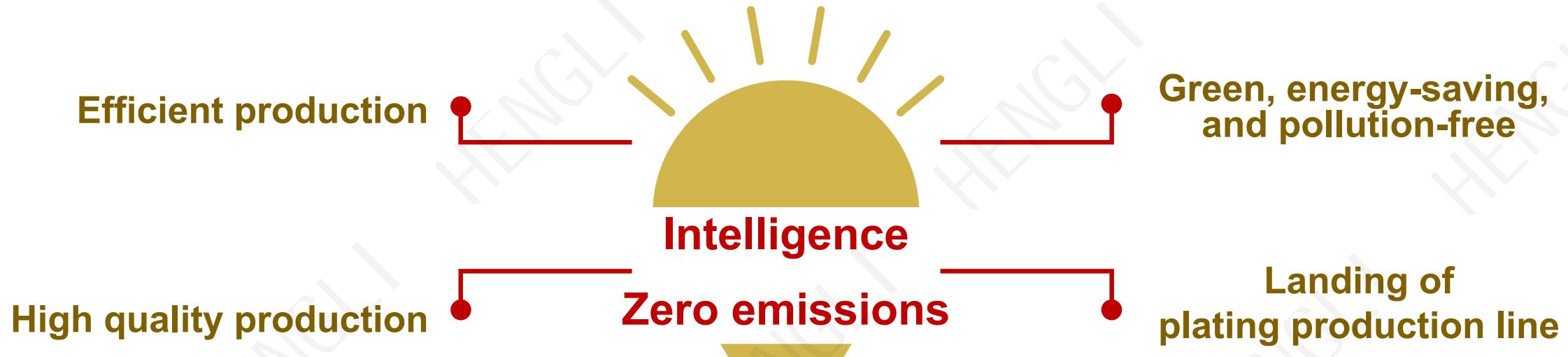


Application areas: Whole factory construction of electroplating and surface treatment for electronic, power, medical, automotive, hardware, military and other products.

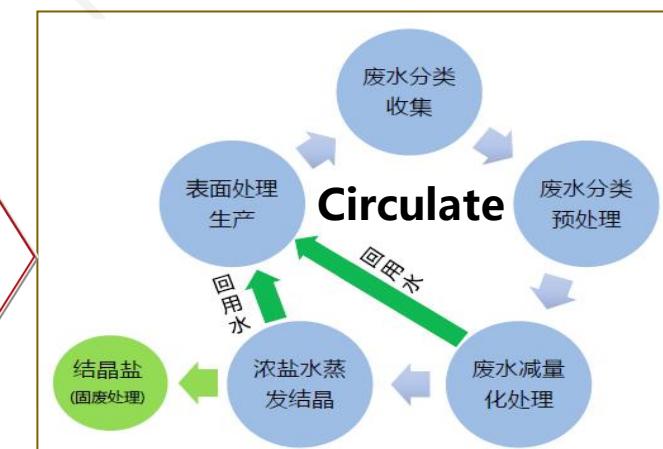
⑥ Digital Surface Treatment Workshop System —— Digitization of production process



⑥ Digital Surface Treatment Workshop System — Targets



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

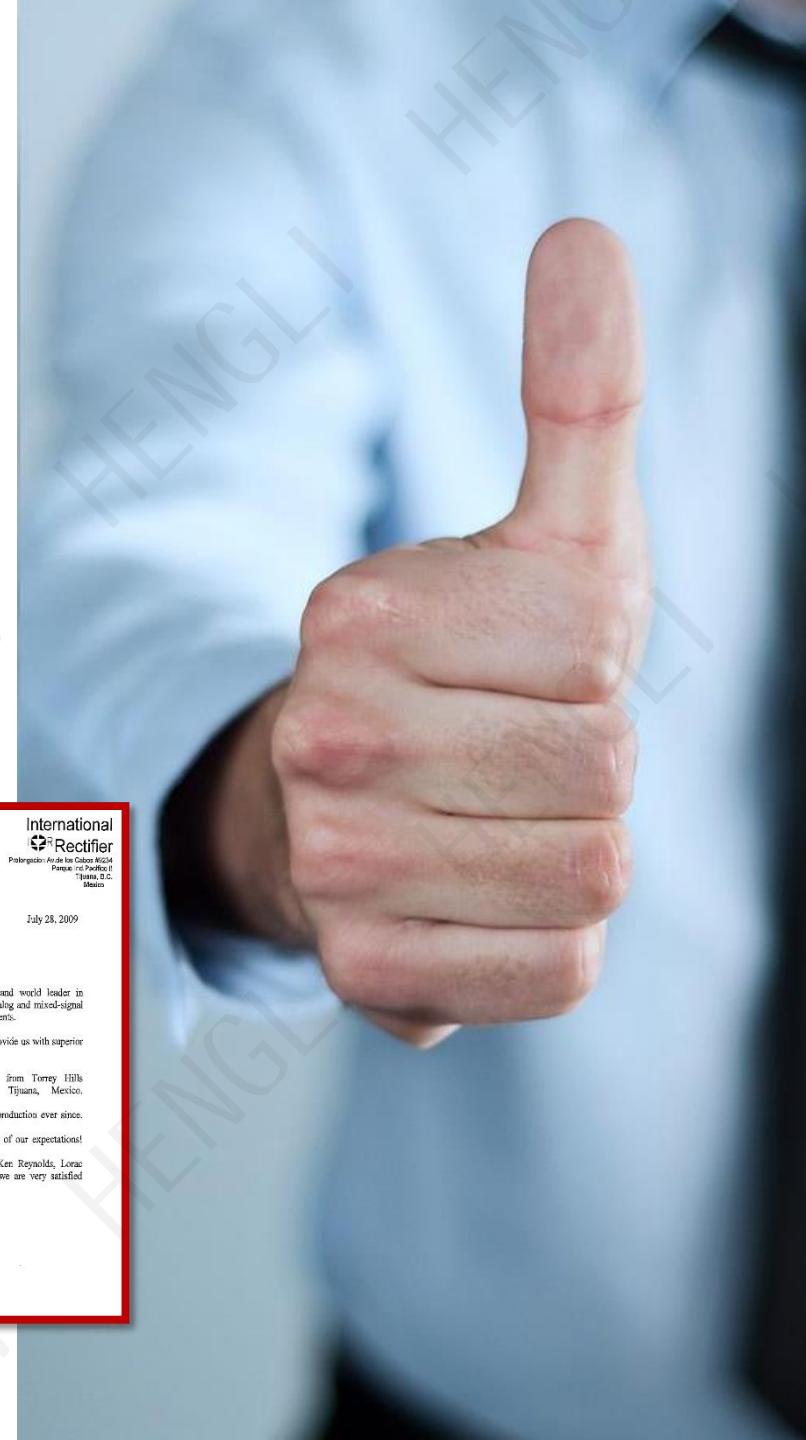
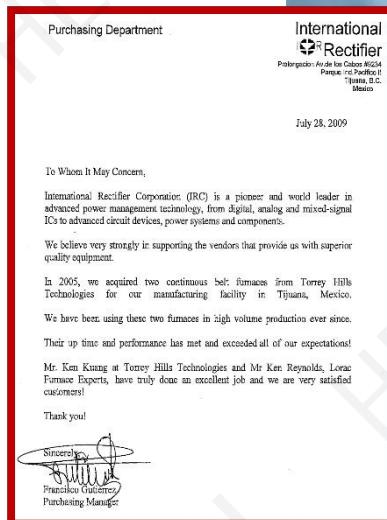
Letter of Satisfaction

"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





HENGLI HELPS YOU SUCCESS

Contact information

- TEL: +86 551 65846903
- Web: www.ecmee.com
- E-mail: market@ecmee.com
- Add: West Building 1, No. 206 Xiangzhang Road, New&High-tech Development Zone, Hefei, Anhui.

HENGLI
Hengli Eletek Co.,Ltd