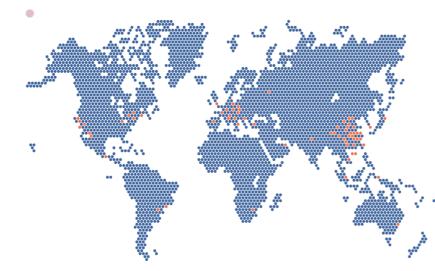
PARTNERSHIP YOU CAN TRUST

- Since the early 2000's we design, fabricate and assemble all our kilns in our facility in the heart of high tech science and technology Park in Hefei, administrative capital of Anhui province.
- Our solution will be entirely based on practical experience and cutting edge designs that are industry-proven.









BTR

🧰 长远锂科

CATL

回 璞泰来

- Knowledge of both the technical and the economic aspects can prevent our clients from making expensive mistakes.
- Full data set of a kiln operational life, the exact power, gas and water consumption figures, maintenance cost data collected over the years will be beneficial for your investment teams.
- We already know what works and what doesn't. We provide a clear way for a battery project from a lab-scale dream to an industrial flagship. As tempting as it may sound, reinventing the wheel is neither reasonable, nor necessary.



licon + Carbon

Si-Graphite composite

ANODE MATERIALS

Metal oxide (LiaTisO12 and other Synthetic Graphit

> NCM (Ni+Co+Mr High Density LFP Gen 4

CATHODE MATERIALS

LiMn₂O₄ LFP (Li+Fe+P) Sodium (Na+Fe) LMFP Classic LFP LiNiO₂

ROLLER HEARTH KILNS UNIVERSALLY SUITABLE FOR BOTH CATHODE AND **ANODE PROCESSING**



HENGLI

WATER AND GAS TREATMENT Bespoke Designs

RECYCLING Rotary Kiln



DIGITAL «LIGHTS OUT» FACTORY MES SOLUTIONS

Our Digital Factory Twin MES application suite is uniquely based on many years of high-yielding industries' best practices. It fulfils or exceeds typical Industry 4.0 requirements and integrates well as a perfect asset management tool for



CONTACT US





+86 551 6584 6903



en.ecmee.com



market@ecmee.com



No.28, Hehuan Road, New & Hi-Tech Development Zone, Hefei, Anhui, China





+44 7985 745 248



honeystone-tec.co.uk



welcome@honeystone-tec.co.uk



Ground Floor, 123 Pall Mall SW1Y 5EA London UK

HENGLI **LEADERSHIP** Over **6,550** kilns and furnaces of various designs delivered worldwide. As of Q3, 2025 over **1,330** HengLi furnaces and **STEWARDSHIP** kilns are used by our customers in anode and cathode materials production. The first example was delivered in 2005. KNOWLEDGE That number includes **680** industrial scale roller hearth kilns with advanced saggar handling systems making over **2,8 million tons** of product per year in total. 5,320 HengLi furnaces, ovens and kilns are operating in semiconductor, photovoltaic, power electronics, hybrid thick film and meta brazing applications. Many unique applications were co-developed with HengLi team. HENGLI **Smart Production Lines**

for Anode and Cathode Materials

OUR CUSTOMERS

■容百锂电



















天力锂能



GEIII

格林美





YEARS OF LEADERSHIP IN THERMAL PROCESSING **OF ADVANCED MATERIALS**



Celebrating







- Solutions for any mainstream Cathode and Anode chemistry from laboratory to pilot, up to industrial scale and Gigafactory.
- 180 patents and inventions and nearly 20 years practical experience in real-world cathode and anode field.
- Following our recent years' success with projects in North America, Europe and the Far East we now offer our expertise worldwide
- RHK/SHS solutions come fully compliant with a regional set of core Design, Electrical and Environmental Safety and certifications in mind.
- Our engineering and technical support partners offer their services to make your project a success in all aspects.
- To all our new customers we offer access to our test laboratory and introduction to our engineering, supply chain and certification partners who would all contribute to a turnkey project.

Laboratory

1..8

AGGAR LOAD

Pilot production

100t

10_m



1.000 t

25_m

5.000 t

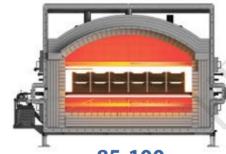
60-80_m

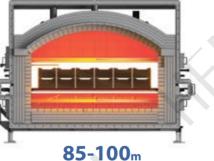




up to 25.000 t







Saggar Handling Systems



110-120_m

Active Cathode Material (CAM) and Anode Roller Kilns

Available configurations Cathode: NCM, LFP, MLFP and others

Anode: Natural and Synthetic Graphite, C+Si

500t

20_m

Process atmospheres available $Air \cdot O_2 \cdot N_2$

O₂ < 10 ppm for N₂ processes (peak zone)

O₂ >99% for O₂ processes (peak zone)

Available models

Atmosphere purity

models for 1, 2, 4 and 8 saggars load Laboratory kilns

automatic or semiautomatic load of saggars Pilot kilns in 2 rows, single layer stack

2, 4 or 6 rows, 2- or 3-layer saggars stacks Industrial scale kilns

Design features

Fully contained, N₂ flushed **RHK Transmission** Patented self-aligning spur and bevel gear drive

Temperature control system Heaters' location, gas preheating and distribution for a uniform thermal field

Laboratory kilns: better than ± 3°C Temperature tolerance (measured on the product) Industrial kilns: better than ± 5°C

Process control Patented heater design and distribution, zoning and PID control algorithmallow for a full flexibility

in process curve fine-tuning and monitoring

Individual or shared handling system configurations Handling of multiple kilns Series or parallel architecture for minimal tact time

Set of individually PLC-controlled functional Saggar handling system design

with network interface to the main kiln control

Atmosphere containment Fully sealed and filled with N2 or dry air

Atmosphere moisture ingress less than + 100 ppm in total

Non-metal transport conveyor rollers and grippers

to prevent product contamination

Loading Top side combination screw mixer / loader module

Mettler Toledo ® precision scale integration

7...16kg (LFP / MLFP cathode) Saggar capacity (typical)

4...16 kg (NCM cathode)

18...25 kg (Graphite & Pitch anode)

better than ±50g per saggar Loading accuracy

Stacking (rows x stack height) 2 x 1, 2 x 2, 4 x 2, 6 x 2, 6 x 3, with or without top lid





