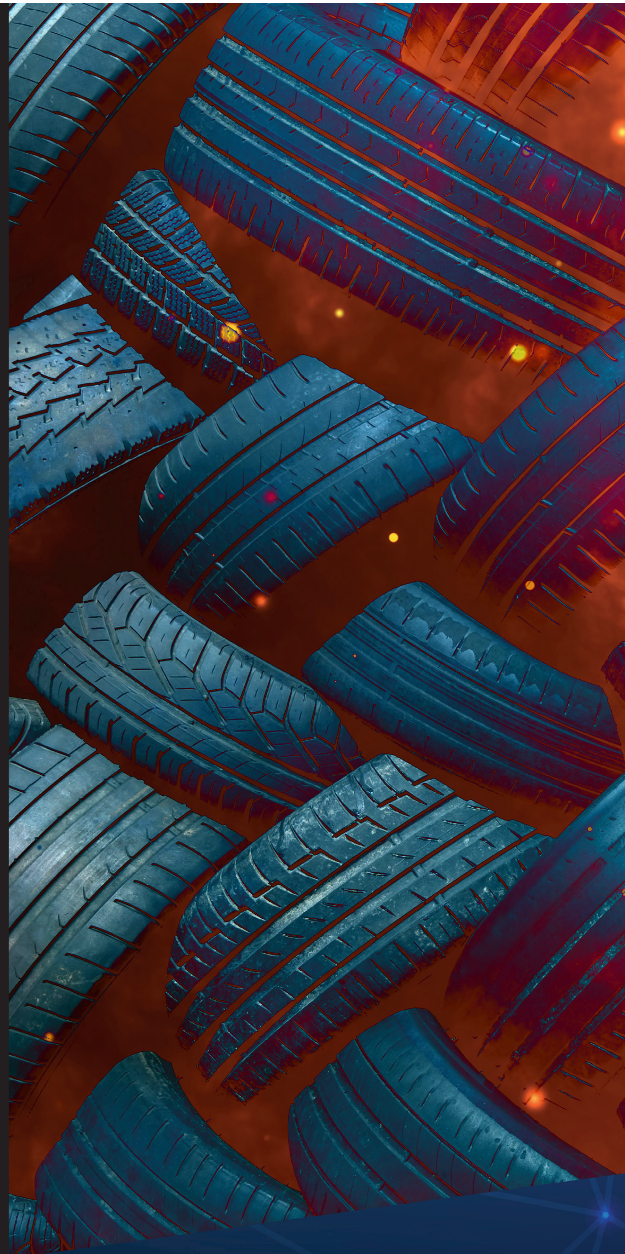


THERMAL SOLUTIONS FOR PYROLYSIS PROCESS



ADVANCED THERMAL PROCESSING EQUIPMENT
FOR PYROLYSIS PROCESSES



WHY US?

Market Insight

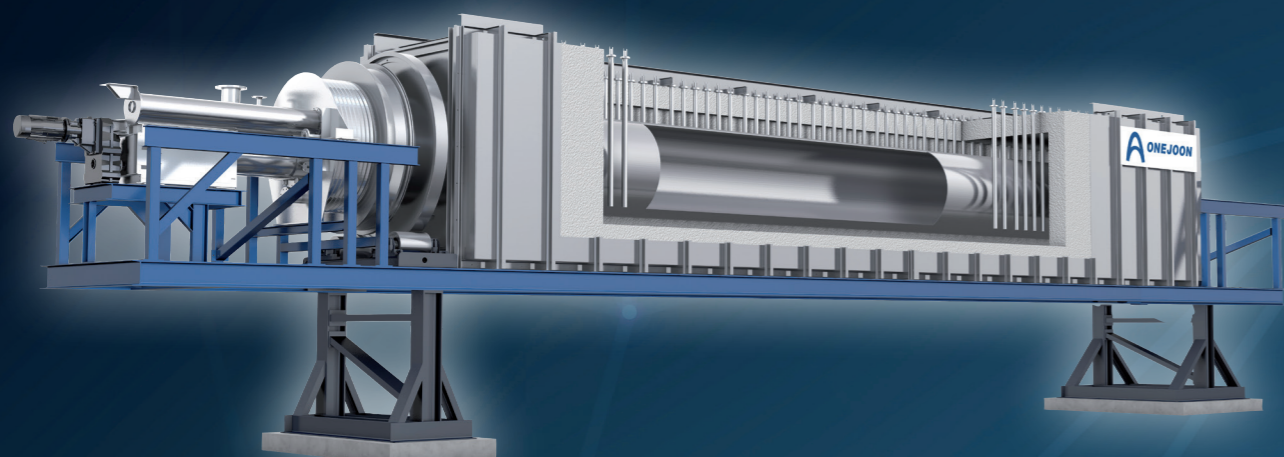
The pyrolysis process is used in more and more resource-saving and environmentally friendly recycling processes such as the production of anode material for e-mobility, the production of rCB, and the recycling of old batteries or plastic waste. In addition, saving CO2 emissions in this process is becoming increasingly important, especially for organic feedstocks. A path is being taken from pure disposal to the recovery of a recyclable raw material with a green footprint. As raw material prices continue to rise, these technologies are becoming not only an ecological but also an economical alternative. This trend will likely increase due to the resolution of the Bundestag to amend the Recycling Management Act as well as the risen environmental awareness of the public, holding companies accountable to their carbon footprint.

As with most products and new production processes crossing the chasm, the new role results in stricter requirements regarding rCB quality, plant throughput, and supply reliability. This implicates a need for advanced production equipment, reliable partners, and suppliers. In terms of plant investment, this materializes in a shift towards higher CAPEX and lower OPEX.

Service Value Proposition

For over 125 years now, we are a reliable partner and thermal equipment provider for customers that develop or scale up their processes. Hence, we know how crucial proven technology, general contractors, and experienced suppliers are to secure investments into new plant projects, especially in the tire pyrolysis business.

As a globally operating thermal solution specialist with offices on three continents and multiple reference plants across industries, ONEJOON frequently provides turnkey solutions for project sizes of up to 50 million Euro. Our philosophy is to move beyond supplying technology and become a trusted partner that innovates alongside our customers and provides process knowledge to build cutting-edge thermal treatment. That is why we created our in-house test center where all our knowledge and products are physically brought together, to provide the best possible conditions for innovating.



OUT OF THE FURNACE



New Raw Material

Pyrolysis Oil

Pyrolysis Gas

Steel

Heat recovery

BECAUSE WE OFFER CUSTOMIZED SOLUTIONS FOR YOUR PROCESSES!

Product Value Proposition

ONEJOON's equipment is designed and optimized for markets and applications requiring high levels of kiln quality, system availability, process safety, heat-treatment homogeneity, and product quality. As these requirements increasingly match those of markets, we are confident that our advanced thermal processing equipment and clean process handling provide our customers with a competitive advantage.

Based on our accumulated experience with pyrolysis in the **chemical industry**, we engineered product features that tackle the industry's most prominent issues.

YOUR BENEFITS AT A GLANCE



To balance the current market needs with the apparent market developments, our Rotary Kiln is designed to run both continuous and discontinuous (batch-process).



Our sealing system is designed to safely heat-treat hazardous and carcinogenic substances by preventing particle or gas emissions. This allows our customers to run a clean process, minimize interfering factors, reduce the environmental impacts of their production, operate in clean facilities, and adhere to strict emission limits.



Our Rotary Kiln components and process parameters are designed to prevent or minimize the build-up of fouling. Based on our expertise in the heat treatment of substances requiring contamination-free environments, we designed our kiln components to be self-cleaning and accommodate effective and swift maintenance and cleaning.



As we provide equipment for major chemical and automotive companies, availability and efficient maintenance are essential. Therefore, we use mechanical and CFD simulations to maximize system availability and process performance. We furthermore engineered our insulation and heads in a way that prevents condensation and fouling by eliminating cold spots.

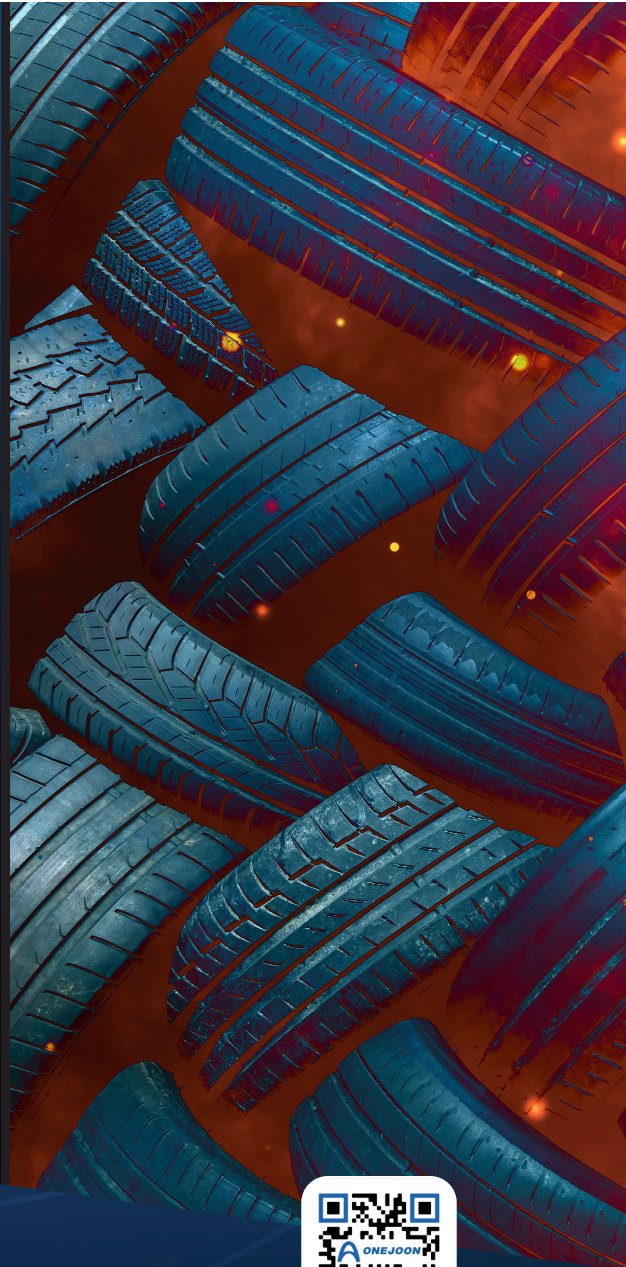


Christian Eckart

Learn more?
I look forward to your call!

You would like to learn more about me, our products and your possibilities? I would be pleased to show you in a personal appointment what I can do for you.

Phone: +49 551 820 830 - 715 | E-Mail: rotary-kiln@onejoon.de



ONEJOON GmbH
Leinetal, 37120 Bovenden, Germany
Phone: +49 551 820 830-0, E-Mail: rotary-kiln@onejoon.de

www.onejoon.de

2022 © ONEJOON GmbH | 03-2021 | 01

All rights reserved. All text, images, photos and graphics are subject to copyright and other intellectual property laws. Content may only be used with the express permission of ONEJOON GmbH. All content, including, without limitation, specifications, descriptions and illustrations, are subject to error and change, in particular with regard to ongoing development of our products in line with technological progress. Changes to content will not be proactively communicated. Technical specifications may vary from country to country.

OJ-F-001-en-0322