

ONEJOON – YOUR PARTNER FOR ADDED VALUE AND SUCCESSFUL PYROLYSIS PROJECTS



RELIABLE HIGH-TECH SOLUTIONS AND EQUIPMENT FOR
THE RECYCLING OF VARIOUS MATERIALS



MAINTENANCE AND SERVICE

- Quick and easy access to sealing system and drum for maintenance and trouble shooting
- ONEJOON sealing system consist of no long lead items
- ONEJOON service staff is familiar with pyrolysis process requirements due to long term experience with pyrolysis applications
- International operating service team with service centers in Europe, Asia and North America

INNOVATION

- Graphite-free sealing system if needed
- Improvement of existing sealing system
- Material in contact with input material can be coated with tungsten carbide as an alternative to the highpriced drum material in terms of battery recycling application
- Pyrolysis gas cracking for gas refinement
- Kiln heads and insulation are engineered in a way that prevents condensation and fouling by eliminating cold spots

HIGHER SYSTEM AVAILABILITY

- Short down time for maintenance due to quick and easy access to sealing system, drum and periphery
- Burn Out to prevent fouling inside the drum and exhaust gas piping
- Trace heating system of exhaust gas piping and further kiln equipment to prevent fouling
- Custom made scrapper solution to minimize fouling inside the drum and to warrant required heat transfer into the drum
- shifting of the reaction to other heating zones

ENGINEERING

- Validation of numbers and values by Simulation Engineers to proof kiln design e.g. heat transfer into drum
- Workshops to optimize customized solutions
- Sealing system workshop for performance confirmation and optimization
- Higher product quality by process optimization

RISK MINIMIZATION

- FEM-Analysis for highly stressed parts like raceway and heating drum to increase the lifetime
- Experience with HAZOP analyses for projects with pyrolysis process
- Testcenter for development and validation of new processes
- Risk minimization due to supply of turn-key-solutions without interfaces to other supplier

ENVIRONMENT

- Multi Chamber sealing system proofed in various projects with carcinogenic input material
- Much lower energy consumption of the sealing system in comparison to sealing systems with similar gas and dust tightness
- Use of pyrolysis gas in combustion chamber for heating the kiln and further process steps

PYROLYSIS PROCESS
IN A ROTARY KILN
BENEFITS AT A GLANCE

WHY US?
BECAUSE WE ARE THE
RELIABLE PARTNER FOR YOUR
INNOVATIVE PRODUCT PROCESSING!



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.

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