watttron

The benchmark of efficiency

Sealing solution for mono-materials The digital heating system



What does watttron offer?

We develop heating systems that enable precise heating of plastic films in the packaging process and support our customers in switching to mono-materials and minimizing the use of materials.



The benchmark of efficiency

mom

GROUP

P&G

Who is watttron?

We are a **technology company** with **extensive experience** in the optimization of **processing and packaging processes**



WORLDSTAR GLOBAL PACKAGING

WARDS



80+ Professionals

> THE Sustainability Awards

Numerous awards (excerpt)





100+ customers worldwide

Some customers

SCHUBERT



KIEFEL

TECHNOLOGIES



Do you know these challenges?



Your customer requires the use of recyclable mono films.



The film is thermally damaged or sticks to the sealing tool.



Mono-material (PP, PE) cannot be processed with current technology and the same productivity.



You have to reject numerous packages during machine start-up or shutdown because the sealing quality is not good.

The cause: The precision of temperature control is currently insufficient!

watttron

The benchmark of efficiency

Previous solutions ...

Reduced output when processing mono films

-Decreases production volume and revenue

-Requires expansion of production capacity

Machine supplier offers a new machine

-Unnecessarily early replacement of existing machines

-Very high investment costs

Use of improved mono-materials

-Often significantly more expensive

-Dependence on individual suppliers

Use of non-stick films/coatings -PTFE affected by PFAS ban

-PTFE films lead to high operating costs

Alternative sealing technologies

-Ultrasonic sealing – often significantly more expensive and not always applicable

-Induction sealing – only for aluminum composites and poor process control

... will not lead to the goal!

The benchmark of efficiency

Precise and reproducible temperature control is the key to success!

Our solution

Pixel-precise, segmented and surface-near heat generation of cera2seal sealing systems allows sealing recyclable materials with a narrow processing temperature window of often <10°C!



The benchmark of efficiency

What is the benefit?

Fast ROI

Quick amortization



Maintaining output and productivity when processing mono materials

- No revenue decline from processing mono materials
- No new machine investment required

No expensive auxiliary materials

(e.g., PTFE films) required



Rapid introduction of recyclable mono materials in production

- Retrofit of existing machines within < 6 months
- Elimination of the risk of delisting by retail chains



Energy savings of approximately 30-50%

- Reduction in energy costs
- Reduction of CO2 footprint



Retrofit of a High-Speed HFFS machine

Mono films were thermally damaged when the machine stopped and stuck to the tools.



Usecase

The system can now seal mono film

Retrofit within a few days

Energy savings of 30%



Contact

See you soon!

watttron GmbH (Headquarter)
 Dresdner Str. 172c
 01705 Freital
 Germany

watttron Inc.
 150 North Michigan Avenue
 Chicago, Illinois 60601
 USA

www.watttron.com
info@watttron.com
+49 351 271808 00
in for the second second

