

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**.

Products

cera**2**heat[®]

Our solution for
thermoforming applications

cera**2**seal[®]

Our solution for sealing
applications



Who is watttron?

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



2016
founded



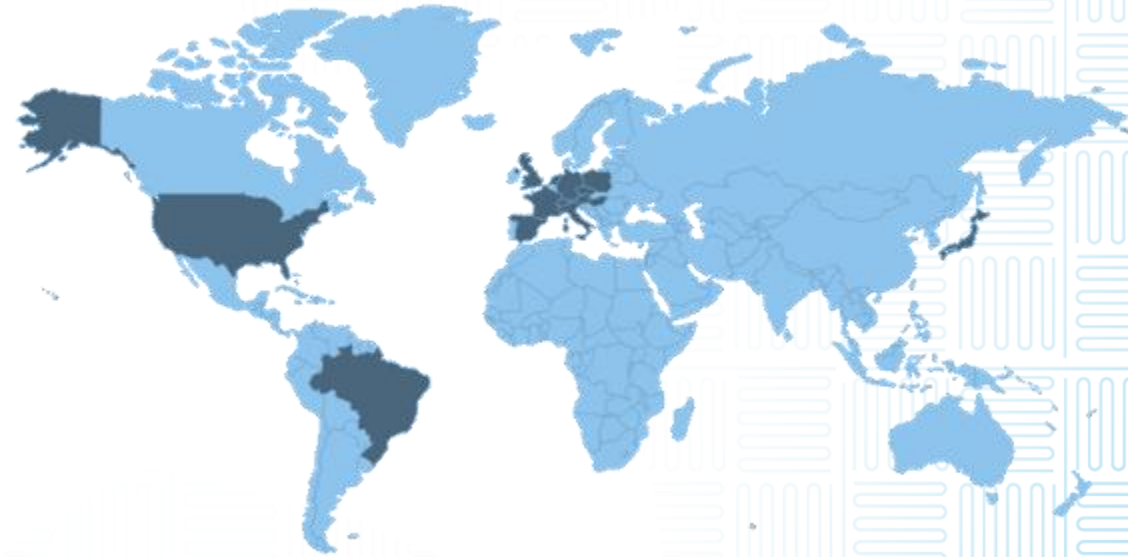
80+
Professionals



2 Locations
(GER/USA)



100+ customers
worldwide



Numerous awards (excerpt)



WORLDSTAR
GLOBAL
PACKAGING
AWARDS



THE
SUSTAINABILITY
AWARDS



Some customers

GEA

IMA 

illig

 MULTIVAC



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!

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

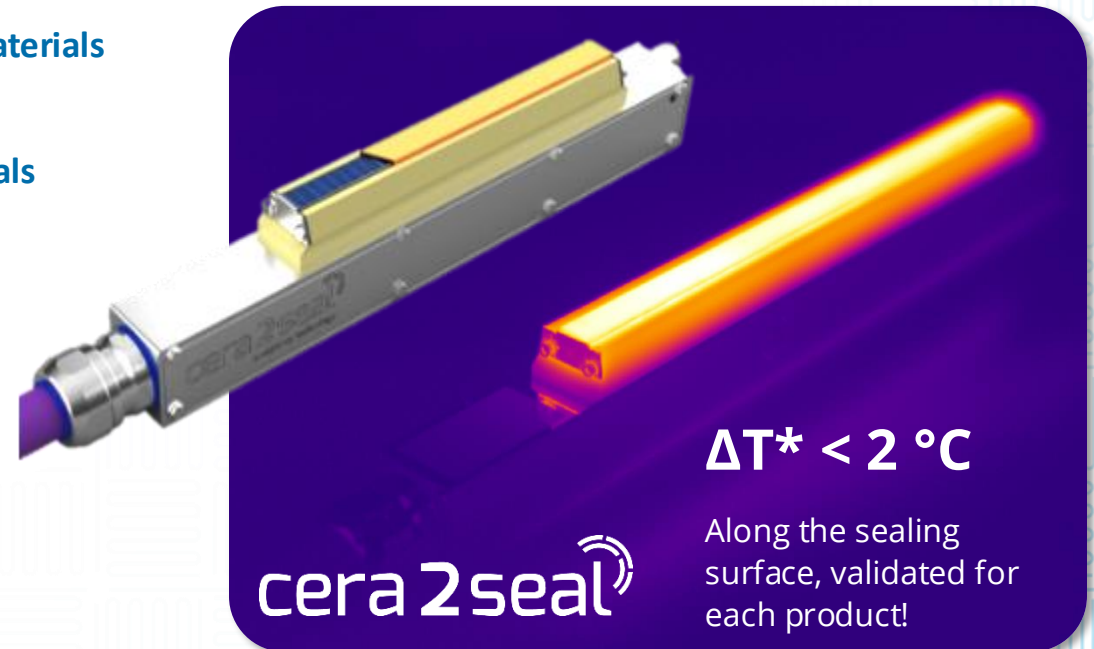
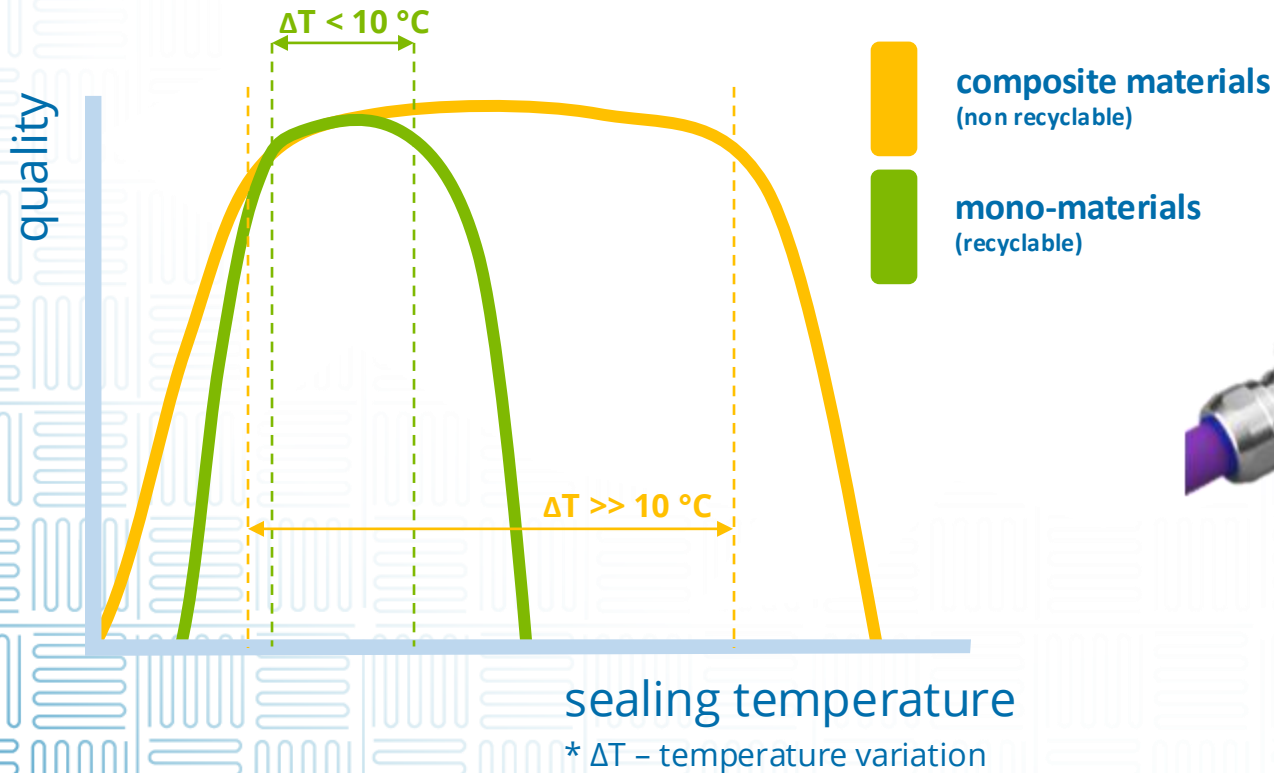
- Ultrasonic sealing – often significantly more expensive and not always applicable
- Induction sealing – only for aluminum composites and poor process control

... will not lead to the goal!

Our solution

Precise and reproducible temperature control is the key to success!

Pixel-precise, segmented and surface-near heat generation of cera2seal sealing systems allows sealing recyclable materials with a narrow processing temperature window of often $<10^{\circ}\text{C}$!

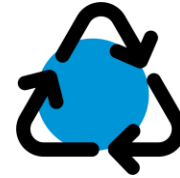


What is the benefit?



Maintaining output and productivity when processing mono materials

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



Fast ROI

- Quick amortization
- No expensive auxiliary materials (e.g., PTFE films) required



Energy savings of approximately 30-50%

- Reduction in energy costs
- Reduction of CO2 footprint

Usecase

Retrofit of a High-Speed HFFS machine

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



The system can now seal mono film



Retrofit within a few days



Energy savings of 30%



Contact

See you soon!

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